



SILIAN

SILIAN PETROCHEMICAL (QINGDAO) LTD

PRODUCT CATALOGUE - PLASTIC RESIN

四联创业集团产品手册 - 合成树脂分册





23Years

Operation experience



3.77+ million tons

Annual Trade Volume



TOP 2

Distributor of Plastic Resin



TOP 1

Distributor of Synthetic Rubber in China



Plastic Resin

(PP, PE, PC, PS, ABS, EVA, etc.)



Synthetic Rubber

(SBR, PBR, SSBR, NBR, Polyisoprene)
and natural rubber



Competitive Business

Commodity distribution, Warehousing, Logistic Services and Commodity Investment



Petrochemical Giants

SINOPEC, CNPC, CHN Energy, Wanhua, ZPC, Baofeng Energy and Transfar.



One-and-only Nationwide Network in China

500+ Employees

26 Branch Companies all-over China



Leading Logistic & Warehousing Team

Delivery Warehouse of Dalian Future Exchange

Over 200 cooperated warehouses nationwide

2,000,000MT Annual Transportation Volume



— ● **PP (POLYPROPYLENE)** 01-19

— ● **PE (POLYETHYLENE)** 20-34

— ● **PVC** 35

— ● **PS** 36

— ● **ABS** 37

— ● **POM** 38

— ● **EVA** 39

— ● **PET** 40

— ● **PA** 41

— ● **PC** 42

POLYPROPYLENE

HOMO	TYPICAL GRADE	PRODUCER	MFR	APPLICATION
PP YARN/ RAFFIA	L5E89	-HENGLI PETROCHEMICAL -CHN ENERGY SHENHUA COAL -CHINA COAL -PETROCHINA GUANGZHOU	3-4	WOVEN BAGS FOR PACKING/ INDUSTRIAL FIBER/ BUNDLING ROPE/ MONOFILA- MENT/ TAPES/ STRAPPING/ JUMBO BAGS
	T30S	-PETROCHINA -ZHONGJING PETROCHEMICAL -SINOPEC		
	S1003	-CHN ENERGY SHENHUA COAL -PETROCHINA DUSHANZI PETROCHEMICALS -ZHEJIANG PETROCHEMICAL -FUDE (CHANGZHOU) -BAOFENG ENERGY		
	1102K	-CHN ENERGY SHENHUA COAL -PETROCHINA -CNOOC NINGBO		
	HP456J	-WANHUA CHEMICAL		
	HP550J	-ZHEJIANG PETROCHEMICAL -JINNENG CHEMICAL		
	550P	-SABIC ASIA PACIFIC		
	T03	-NINGBO FUJI PETROCHEMICAL -GULEI PETROCHEMICAL		
	L5D98	-HENGLI PETROCHEMICAL -CHN ENERGY SHENHUA COAL -CHINA COAL	3.5	BOPP FILM
	T36F	-ZHONGJING PETROCHEMICAL		
	PPH-F03D	-SINOPEC	2.8	
	F300M	-SINOPEC MAOMING	3	



Polypropylene resin T30S

I. Production techniques and performance characteristics

It is produced by Basell's Spheripol-II double-ring tube liquid phase process technology, drawing grade homopolymer polypropylene, the product is colorless, odorless, translucent cylindrical particles, with good processing properties and mechanical properties. The products have passed the national food hygiene, FDA food grade testing certification, ROHS and other testing certification.

II. Technical indicators

Analysis item	Typical performance indicator	Test method
Melt flow rate, g/10min	3.0	GB/T3682
Isotropic index, %	97.5	GB/T2412
Tensile yield strength, MPa	32.0	GB/T1040
Charpy impact strength, kJ/m ²	3	GB/T1043.1
Ash content of powder, %	0.02	GB/T9345
Yellow index	4.0	HG/T 2409

(the indicators in the table are typical values, not as product quality control indicators)



JINNENG CHEMICAL (QINGDAO) CO.,LTD.

Product Name: Polypropylene Resin **Brand:** JINPP **Model/Grade:** HP550J **Origin:** Qingdao, China

I. Product Description:

HP550J is a fiber grade polypropylene licensed by Lyondell Basell's Spheripol technology. The product has the characteristics of high strength, high rigidity, good ductility, easy processing, low smell and so on.

II. Technical indicators

Test Items	Specification	Testing Standard
Melt flow rate(MFR)(230℃, 2.16kg),g/10min	2.5-3.5	GB/T 3682.1-2018
Isotactic index, %(m/m)	≥95	GB/T 2412-2008
Modulus of elasticity for tension, MPa	≥1100	GB/T 1040.2-2006
Tensile stress at break, MPa	≥31	



PP-POLYPROPYLENE



Product: Polypropylene (L5E89)

Standard: Q/DQ SHM 0009-2014

Manufacturer: Shenhua Baotou Coal Chemistry Co., Ltd.

Items	Specification	Typical value	Test method
	Prime		
Color grains (no./kg)	≤ 5	0	SH/T 1541
Black grains (no./kg)	0	0	SH/T 1541
Large & small grains (g/kg)	≤ 100	5	SH/T 1541
Melt flow rate MFR @230° C/2.16kg (g/10min)	3.5 ± 0.5	3.5	GB/T 3682
Isotactic index (%)	≥ 95.5	97	GB/T 2412
Tensile strength at yield (MPa)	≥ 31.0	31.5	GB/T 1040.2
Tensile strength at break (MPa)	> 16.0	20.5	GB/T 1040.2
Tensile elongation (%)	> 180	350	GB/T 1040.2
Yellow Index	≤ 4.0	-2.1	HG/T 3862

For any specific grades and needs, please feel free to contact our sales.

HOMO	TYPICAL GRADE	PRODUCER	MFR	APPLICATION
PP INJECTION MOULDING	1100N	-CHN ENERGY SHENHUA COAL -APC CHEMICALS -SINOPEC FUJIAN	11-12	FURNITURE; HOUSEWARES
	PPH-M12	-CHINA COAL	12	
	HP500N	-ZHEJIANG PETROCHEMICAL -WANHUA CHEMICAL -BORA LYONDELLBASELL -SINOPEC ZHONGKE(GUANGDONG)	12	
	Y16	-NINGBO FUJI PETROCHEMICAL -SHAOXING SANYUAN	16	
	HP500P	-PETROCHINA DAQING	12-22	
	M17	-SINOPEC HAINAN -GULEI PETROCHEMICAL -SINOPEC ZHANJIANG ZHONGXING	17	
	V30G	-HENGLI PETROCHEMICAL -YANCHANG PETROLEUM -CHN ENERGY SHENHUA COAL -BAOFENG ENERGY	16	
	BZ-70	-SHANDONG SHOUGUANG LUQING PETROCHEMICAL	70	
	HP648U	-JINNENG CHEMICAL	65	
	M70	-SINOPEC TIANJIN	70	
	HP648T-M	-DONGMING	70	
	HP648T	-ZHEJIANG PETROCHEMICAL	70	
	MN60	-SINOPEC ZHONGAN UNITED	60	
	9018	-DONGFANGHONGYE	70	
	M600E	-BAOFENG	65	
	HB66G	-CNPC HUABEI	66	
	MM60	-SINOPEC SHIJIAZHUANG	50-70	
	R7700N	-SINOCHEM	70	
	MN70	-GULEI PETROCHEMICAL -ORIENTAL ENERGY	70	

PP Homopolymer Injection Plastic V30G

I . Product Introduction

V30G is homopolymer injection polypropylene produced by Ningxia Baofeng Energy Group Co., Ltd. using the Unipol polypropylene production process of Grace company of the United States. The product has many characteristics, such as high anti-impact strength, good acid and alkali corrosion resistance, excellent insulation, fantastic gloss and mold release, low warpage and good hot melt fluidity.

II . Product Application

This product is suitable for the production of pallets, plastic boxes, toys, garbage cans, small daily necessities, etc.



III . Main Product Indicators

project	unit	Typical Value
Particle Appearance (color grains)	PCS/kg	0
Melt mass flow rate (2. 16kg)	g/ 10min	15.0±2.0
Ash Content	mg/ kg	<200
Tensile yield stress	MPa	≥32.0
Tensile Fracture Stress	kJ/m ²	≥18.0
Flexural Wodulus	MPa	≥1300

Note: The data in the table are typical values for reference only and are not used for quality assurance or other purposes. For actual performance, please refer to the quality inspection report .

IV . Recommended Processing Technology

V30G is suitable for the usual injection molding equipment, the recommended processing temperature range is 190℃-240℃ . Specific processing conditions can be adjusted according toraw materials, equipment and the size of products.

Product Name: POLYPROPYLENE

Product Grade: PPH-M17



I . Typical Application

Sinopec PP homopolymer has higher crystallinity, high rigidity, high tensile strength, high modulus and good thermal distortion resistance. Products made from this resin are characterized by short processing time, good scratching resistance and fluidity. PP homopolymer is widely used in the production of small electrical household appliances, such as electric kettles, electric utensils, electric irons, air heaters, electric hair dryers, electric toasters and electric hand dryers.

II . Typical performance index(Not Warranted Value)

Test Item	Test Method	Spec.	Unit
Black pellet	SH/T 1541-2006	0	pcs/kg
Colored pellet	SH/T 1541-2006	≤10	pcs/kg
Large and small pellet	SH/T 1541-2006	≤100	g/kg
MFR	GB/T 3682-2000	14~20	g/10min
Isotactic index	GB/T 2412-2008	296.0	%
Ash	GB/T 9345.1-2008	≤0.02	%
Tensile Strength at yield	GB/T 1040.1-2006	≥30	MPa

For any specific grades and needs, please feel free to contact our sales.

HOMO	TYPICAL GRADE	PRODUCER	MFR	APPLICATION
PP FIBER	Y26	-SINOPEC HAINAN -ORIENTAL ENERGY -SHANDONG SHOUGUANG LUQING PETROCHEMICAL	26	NON-WOVEN FABRICS AND STAPLE FABRICS
	Y35	-SHANDONG SHOUGUANG LUQING PETROCHEMICAL	35	
	Y381H	-ORIENTAL ENERGY	38	
	S2040	-CHN ENERGY NINGXIA COAL -PETROCHINA DUSHANZI PETROCHEMICAL -YANCHANG PETROLEUM	40	
	S2024	-CHN ENERGY NINGXIA COAL -CHN ENERGY SHENHUA COAL		
	H39S-2	-PETROCHINA DALIAN PETROCHEMICALS		
	HT40S	-PETROCHINA HUHHOT		
	Y40	-SINOPEC ZHENHAI -HENGLI PETROCHEMICAL		



Oriental Energy (Ningbo) New Materials Co., Ltd

PPH Y26

is produced by Oriental Energy (Ningbo) New Materials Co., Ltd. based on Unipol™ process technology of Grace. PPH Y26 is a homo-polymer PP grade produced with advanced catalyst. This type of PP shows stable performance and easy processing. It is mainly used for in the production of carpets, lawn silk, and spunbonded non-woven fabrics.

Product Features

Good Spinnability

East processing

Application

Artificial grass

Spun yarns for carpet pile



Typical Properties

No.	Items	Test Method	Unit	Typical Value
1	Melting Flow Rate (MFR)	GB/T 3682.1-2018	g/10min	24
2	Tensile Strength at Yield (σ_y)	GB/T 1040.2-2006	MPa	33
3	Flexural Modulus (E_f)	GB/T 9341-2008	MPa	1200
4	Yellow Index (YI)	HG/T 3862-2006	-	2.5

Note: (1) The values listed above are typical values for reference purpose only and shall not be construed as specifications. (2) Passed FDA\RoHS\SVHC tests of SGS.

Product safety compliance

PPH Y26 complies with GB 4806.6-2016 "National Food Safety Standard for Food Contact Plastic Resin", US Food and Drug Administration (FDA) 21CFR 177.1520 (C) 1.1a, EU RoHS Directive requirements, EU No. 1907/2006 Reach regulations, passed the screening test requirements for 201 substances of high concern (SVHC); PPH Y26 does not intentionally introduce plasticizers and other additives that does not comply with national regulations, but the user is responsible for verifying its final product compliance with applicable regulatory requirements.



Polypropylene resin HT40S

I. Production enterprises:

Huhhot Petrochemical Company

II. Production techniques and performance characteristics

Produced by the Basell's Spheripol-II double-ring tube liquid phase process technology, the fiber grade homopolymer polypropylene, the product is colorless, odorless, translucent cylindrical particles with excellent flowability, through the use of controlled molecular weight adjustment technology and low odor control technology developed independently by PetroChina, it has good spinning performance and hygiene performance, no odor and other characteristics. The products have passed the national food hygiene, FDA food grade testing certification, ROHS and other testing certification.

III. Technical indicators

Analysis item	Typical performance indicator	Test method
Melt flow rate, g/10min	40.0	GB/T3682
Isotropic index, %	97.0	GB/T2412
Tensile yield strength, MPa	34.0	GB/T1040
Flexural modulus, MPa	1300	GB/T1043.1
Ash content of powder, %	0.02	GB/T9345

(the indicators in the table are typical values, not as product quality control indicators)

IV. Product Applications

Mainly suitable for high-speed spunbond method of non-woven fabrics, fine denier staple fiber, high-speed molding spinning, filament, etc., widely used in carpets, medical products (surgical gowns, masks, etc.), sanitary materials (diapers, sanitary napkins, etc.), etc.

COPO	TYPICAL GRADE	PRODUCER	MFR	APPLICATION
TERNARY	F5606	-SINOPEC YANSHAN	6	BOPP FILM CPP FILM
	TF1007	-PETROCHINA DUSHANZI	6-9	
	F4908	-SINOPEC MAOMING	7-9	
	C5608M	-SINOPEC YANSHAN	8	
	C5908M	-SINOPEC YANSHAN	8	
	FS08-GH	-SINOPEC YANGZI	8	
BINARY	D(Y)-W0723F	-PETROCHINA DUSHANZI	6-9	CPP FILM
	D(Y)-W725EF	-PETROCHINA DUSHANZI	7-9	
	F08M-S	-SINOPEC MAOMING	7-9	
	F08E	-SINOPEC -ZHONGKE(GUANGDONG)	7-9	
PIPE	4228	-PETROCHINA DAQING	0.25-0.5	PIPE
	4220	-SINOPEC YANSHAN	0.25	
	B8101	-SINOPEC YANSHAN	0.37	
	PA14D	-PETROCHINA DAQING	0.2-0.35	
	T4401	-PETROCHINA DUSHANZI	0.2-0.3	
	0640P	-PETROCHINA DUSHANZI	0.4	
TRANSPARENT	4912	-ZHEJIANG PETROCHEMICAL -SHANGHAI SECCO	11.7	FOOD STORAGE CONTAINERS HOUSEWARE CONTAINERS, LIDS
	M800E	-SINOPEC SHANGHAI	8	
	GM1600E	-SINOPEC SHANGHAI	13-19	
	R7250	-SINOCEM	25	
	R7140	-SINOCEM	12	

COPO	TYPICAL GRADE	PRODUCER	MFR	APPLICATION
TRANSPARENT	3248R	-GULEI PETROCHEMICAL	23	FOOD STORAGE CONTAINERS HOUSEWARE CONTAINERS, LIDS
	MT25	-GULEI PETROCHEMICAL	24.3	
	9025	-SINOPEC MAOMING	23	
	MT70	-GULEI PETROCHEMICAL	70	
	RP340N	-SHANDONG DONGMING PETROCHEMICAL	16	
	4808	-SHANDONG DONGFANGHONGYE	7-12	
	4912	-SHANDONG DONGFANGHONGYE	11-17	
	4818	-SHANDONG DONGFANGHONGYE	16-22	
	RP02B	-CNPC DUSHANZI	1.55	
	3240R	-BOHUA DEVELOPMENT	24.6	
	MT35	-SHANDONG DONGMING PETROCHEMICAL	35-37	
	RP340S	-SHANDONG DONGMING PETROCHEMICAL	40	
	M700B	-SHANDONG DONGMING PETROCHEMICAL	70	
	K4940	-YANCHANG YANAN	40	
	344N	-BORA LYONDELLBASELL	13	
	RP346P	-SHANDONG CHAMBROAD	16	
	RP340R	-SHANDONG CHAMBROAD -China Coal Shaanxi Yulin	25	
	RP346R	-SHANDONG CHAMBROAD	25	
	MT50	-SHANDONG CHAMBROAD	50	
	MT60	-SHANDONG CHAMBROAD	60	
	MT60M	-SHANDONG CHAMBROAD	60	
	M800E	-SHANDONG CHAMBROAD	9	
	340N-B	-SHANDONG CHAMBROAD	13	
	MT500B	-YANCHANG YULIN	50	
	MT400B	-YANCHANG YULIN	40	



中国石化
SINOPEC

Product Name: **Polypropylene**
Product Grade: **PPR-F06-G(F5606)**

Product Description:

Sinopec is the largest OPP resin supplier in China. The company has made a breakthrough in the theoretical research on OPP. Starting with the design and control of the molecular structure of polypropylene, Sinopec has overcome a series of technical challenges such as tensile and thermal stability and significantly improved the quality of its OPP resin. The BOPP linear velocity could exceed 400 meters per minute during film processing

Physical Properties:

Typical performance index (Not Warranted Value)

Item		Unit	Quality Index	Typical Value	Method
Appearance of Granules	Black Granule	/kg	0	0	SH/T 1541.1-2019
	Colour Granule	/kg	≤0	0	
	Large & Small Particles	g/kg	≤ 25	3	
Melt Mass-Flow Rate (MFR)		g/10min	6.0±1.0	6.22	GB/T 3682.1-2018
Tensile Stress at Yield		MPa	≥18.0	20.1	GB/T 1040.2-2006
Nominal Tensile Strain at Break		%	≥450	457	GB/T 1040.2-2006
Fish Eye Number ≥0.6mm		/1520cm ²	≤1	0.3	GB/T 31550.14-2018
Fish Eye Number 0.3mm~0.6mm		/1520cm ²	≤8	3.0	GB/T 31550.14-2018
Haze		%	≤ 5.0	1.3	GB/T 31550.14 - 2018
Melting Temperature		℃	≤137	135	GB/T 19466.3-2004

For any specific grades and needs, please feel free to contact our sales.



PP-POLYPROPYLENE



中国石化
SINOPEC

Product Name: **Polypropylene**

Product Grade: **C5908M**

Product Description:

Sinopec is the largest OPP resin supplier in China. The company has made a breakthrough in the theoretical research on OPP. Starting with the design and control of the molecular structure of polypropylene, Sinopec has overcome a series of technical challenges such as tensile and thermal stability and significantly improved the quality of its OPP resin. The BOPP linear velocity could exceed 400 meters per minute during film processing

Physical Properties:

Typical performance index (Not Warranted Value)

Item		Unit	Quality Index	Typical Value	Method
Appearance of Granules	Black Granule	/kg	0	0	SH/T 1541.1-2019
	Colour Granule	/kg	≤0	0	
	Large & Small Particles	g/kg	≤ 50	3	
Melt Mass-Flow Rate (MFR)		g/10min	8.0±1.0	8.46	GB/T 3682.1-2018
Tensile Stress at Yield		MPa	≥18.0	21.4	GB/T 1040.2-2006
Nominal Tensile Strain at Break		%	≥450	508	GB/T 1040.2-2006
Fish Eye Number ≥0.6mm		/1520cm ²	≤1	0.3	GB/T 3155014-2018
Fish Eye Number 0.3mm~0.6mm		/1520cm ²	≤12	3.0	GB/T 3155014-2018
Haze		%	≤ 5.0	2.3	GB/T 3155014 - 2018
Melting Temperature		℃	≤137	135	GB/T 19466.3-2004

For any specific grades and needs, please feel free to contact our sales.

聚丙烯树脂【D(Y)-W0723F】

Polypropylene resin D(Y)-W0723F

■ 技术指标:

Technical indicators:

项 目 Item		单位 Unit	技术指标 Technical parameters	试验方法 Test method
颗粒外观 Appearance	色粒 Coloring	个 /kg pcs/kg	5	SH/T 1541-2006
	大粒和小粒 Over or undersized pellets	g/kg pcs/kg	5	
熔体质量流动速率 MFR		g/10min	7.0	GB/T 3682-2000
拉伸屈服应力 Tensile strength at yield		MPa	24	GB/T 1040.2-2006
悬臂梁冲击强度 Impact strength of cantilever beam		J/m	40	GB/T 1843-1996
弯曲模量 Flexural modulus (Mpa) Monynb ynpyrocrn npn w3ru6e MNa		MPa	750	GB/T 9341-2000
鱼眼 Fish eye	0.4mm	个 /1520cm ²	2	GB/T 6595-1986
	0.8mm		10	

For any specific grades and needs, please feel free to contact our sales.



SECCO K4912M

Polypropylene, Random Copolymer

Product Description

K4912M is a nucleated polypropylene random copolymer with outstanding performances such as excellent clarity, high gloss and anti-precipitation, the biological and chemical properties of which comply with YY/T 0242-2007 Polypropylene material for manufacture of infusion, transfusion and injection equipment for medical use. K4912M is widely used in medical area and various upscale transparent products.

Typical Applications

Injection Molding: medical products, transparent containers, houseware, food packaging bottles, media packaging products, household appliances

Typical Property Values

Properties	Typical values	Units	Test methods
Physical Properties			
Melt Flow Rate (230℃/2.16 kg)	12.5	g/10min	GB/T 3682.1
Density	0.90	g/cm ³	GB/T 1033.2
Melting Temperature (DSC)	144	℃	GB/T 19466.3
Mechanical Properties			
Tensile Strength at Yield (50 mm/min)	28	MPa	GB/T 1040.2
Tensile Strength at Break (50 mm/min)	15	MPa	GB/T 1040.2
Tensile Elongation at Break (50 mm/min)	400	%	GB/T 1040.2
Flexural Modulus (2 mm/min)	1050	MPa	GB/T 9341
Charpy Impact Strength, notched (23℃)	6.0	kJ/m ²	GB/T 1043.1
Rockwell Hardness	101	R-Scale	GB/T 3398.2
Optical Properties			
Transmittance (1mm sheet)	87	%	GB/T 2410
Haze (1mm sheet)	14	%	GB/T 2410
Yellow Index	-5	/	ASTM E313
Thermal Properties			
Heat Deflection Temperature (0.45 MPa)	73	℃	GB/T 1634.2
Vicat Softening Point (A ₅₀)	121	℃	GB/T 1633

Disclaimer: All information provided in this document, whether it is data, typical applications, product features, etc., is put forward on the basis of research results and is believed to be reliable; However, it is not a guarantee for this product. Users and other users should make their own judgments on whether this product and the contents listed in this document are suitable for its specific use, and be responsible for the risks, results and impacts generated, and ensure that its disposal complies with relevant regulations and other government regulations. Under no circumstances will SECCO be responsible for any consequences arising from the use of the above information or the application and processing of this product.

聚丙烯树脂【T4401】

Polypropylene resin T4401

■ 技术指标:

Technical indicators:

项 目 Item		单位 Unit	技术指标 Technical parameters	试验方法 Test method
颗粒外观 Appearance	色粒 Coloring	个/kg pcs/kg	0	SH/T 1541-2006
	大粒和小粒 Over or undersized pellets	g/kg pcs/kg	0.9	
熔体质量流动速率 MFR		g/10min	0.24	GB/T 3682-2000
拉伸屈服应力 Tensile strength at yield		MPa	24.1	GB/T 1040.2-2006
拉伸断裂标称应变 Nominal tensile strain at break		%	541	GB/T 1040.2-2006
弯曲模量 Flexural modulus (Mpa)		MPa	709	GB/T 9341-2008
简支梁冲击强度 (23℃) Charpy impact strength		kJ/m ²	43.6	GB/T 1043.1-2008
热变形温度 (0.45MPa) Distortion temperature(0.45MPa)		℃	67.8	GB/T 1634-2004

COPO	TYPICAL GRADE	PRODUCER	MFR	APPLICATION
LOW MFR	K8003	-SINOPEC MAOMING	2.3	BATTERY SHELLS, OIL TANKS, KITCHENS, TOYS, TOOL BOXES
		-PETROCHINA DUSHANZI		
		-ZHONGANLIANHE		
		-SHANDONG SHOUGUANG		
		-LUQING PETROCHEMICAL		
		-SINOPEC YANGZI		
	-SINOPEC YANSHAN			
	2500HY	-CHN ENERGY NINGXIA COAL	2	
	EPS30R	-CHINA COAL ENERGY	1.1-1.9	
	PPR EP02	-SINOPEC HAINAN	1.8	
PPB 300H	-SHANDONG DONGMING PETROCHEMICAL -SINOPEC ZHONGKE	1.98		
PPB M02D	-SINOPEC MAOMING	1.56		
C7025N	-SINOCHEM	2.5		
MEDIUM MFR	87M	-SABIC	8	AUTOMOBILES, ELECTRICAL APPL ICANCES BATTERY CASES, TOYS, DAILY NECESSITIES CASTERS
	M09	-SINOPEC ZHENHAI	9.2	
	300M	-CNOOC&SHELL PETROCHEMICALS	9	
	SP179	-CNOOC&SHELL PETROCHEMICALS -SINOPEC ZHONGKE(GUANGDONG)	9	
	M700R	-SINOPEC JINSHAN	7	
	K8009	-SINOPEC GUANGZHOU	8-9	
	EP440N	-SINOPEC ZHONGKE(GUANGDONG)	12	
HIGH MFR	511MK40T	-SABIC	29	AUTOMOTIVE MODIFIED MATERIALS, HIGH MELTING INJECTION MOLDING PRODUCTS, HOUSEHOLD GOODS, TOYS, ELECTRICAL SPARE PARTS, CAPS
	EP300R B	-BORA LYONDELLBASELL	30	
	9928	-PETROCHINA DUSHANZI	25-35	
	533	-PETROCHINA LANZHOU	28-33	
	K7227	-SINOPEC GUANGZHOU	29	
	EP548R	-SINOPEC ZHENHAI	30	
		-SINOPEC ZHONGKE(GUANGDONG)		
		-WANHUA CHEMICAL -PETROCHINA LIAOYANG -YANCHANG PETROLEUM		

Polypropylene PPB-MO3(K8003)

Quality Index

Item		Unit	Index	Test method
Melt mass flow rate (MFR)	Standard value	g/10min	2.5	GB/T 3682.1-2018
	Deviation value	g/10min	± 0.3	
Tensile yield stress (oy)		Mpa	≥ 22.0	GB/T 1040.2-2006
Flexural modulus (Ef)		Mpa	≥ 900	GB/T 9341-2008
Charpy Notched Impact Strength (23° C)		KJ/m ²	≥ 46	GB/T 1043.1-2008
Heat deflection temperature under load (Tf0.45)		°C	≥ 80	GB/T 1634.2-2019

For any specific grades and needs, please feel free to contact our sales.

Product Name: EP548R

Product Description

EP548R is a polypropylene impact copolymer with optimized balance of stiffness and impact properties, good flow properties and good impact resistance.

EP548R complies with the following relevant regulations for direct food contact

- GB4806.6-2016,GB9685-2016
- FDA 21 CFR177. 1520(a)(3)(i) and (c)3.1a

Typical Applications

- Home appliances
- White household appliances
- Food-contact packaging
- Household items
- Thin-walled container
- Compounding materials

Typical Properties

Resin performance	Test Conditions	Typical value	Testing method
Density		0.90g/cm ³	GB/T 1033.2-2010
Melt Flow Rate	230°C/2.16kg	30g/10min	GB/T 3682.1-2018
Mechanical			
Flexural modulus	2mm/min	1250 MPa	GB/T 9341-2008
Tensile stress at yield	50mm/min	24MPa	GB/T 1040.2-2006
Tensile strain at yield	50mm/min	5%	GB/T 1040.2-2006
Charpy impact strength			
23°C,notched	Type A,Notch	10 KJ/m ²	GB/T 1043.1-2008
-20°C,notched	depth 2mm	6 KJ/m ²	GB/T 1043.1-2008
Thermal			
HDT	0.45MPa	90°C	GB/T 1634.2-2004
Vicat Point	A50	148 °C	GB/T 1633-2000
Hardness			
Rockwell hardness		85 R-scale	GB/T 3398.2-2008

Note: Typical properties, should not be used for specification work

POLYETHYLENE

		TYPICAL GRADE	PRODUCER	MFR	APPLICATION
HDPE	FILM	7000F	-MEHR PETROCHEMICAL -BCCO -LUQING PETROCHEMICAL	0.04	FILMS, FILM WITH PUBLIC USE, SHOPPING BAGS. HEAVY DUTY BAGS, FOOD PACKAGING BAG INDUSTRIAL BAGS
		FJ00952	-SABIC ASIA PACIFIC	0.05	HIGH STRENGTH GROCERY SACKS, SHOPPING BAGS.HIGH QUALITY THIN FILMS
		6888	-EQUATE PETROCHEMICAL	0.1	HIGH STRENGTH GROCERY SACKS, SHOPPING BAGS, PRODUCE BAGS, HIGH QUALITY THIN FILMS
		55110	-SINOPEC ZHONGKE -SINOCHEM -CHN ENERY BAOFENG	0.22-0.26 (5kg/)	BAGS & POUCHES, FOOD PACKAGING FILM, HEAVY DUTY PACKAGING, LAMINATION FILM
		6098/6095	-SINOPEC ZHENHAI -CHINA COAL -SINOPEC QILU -FUJIAN REFINING & PETROCHEMICAL	0.65 (5kg/)	HANDBAGS, SHOPPING BAGS, PACKAGING BAGS, MULTI-LAYER LINING FILMS, WEATHER RESISTANT FILMS
		9255B	-BORA LYONDELLBASELL -ZHEJIANG PETRO- LEUM&CHEMICAL -WANHUA CHEMICAL -SINOPEC GUANGDONG	0.12	BAGS & POUCHES, FOOD PACKAGING FILM, HEAVY DUTY PACKAGING, LAMINATION FILM

For any specific grades and needs, please feel free to contact our sales.

HDPE ACP9255B

DESCRIPTION

ACP9255B is a high-density polyethylene resin, copolymer of butene-1. This grade exhibits good processability and can be widely used to make films. It has good rigidity and puncture resistance.

TYPICAL APPLICATIONS

ACP9255B is generally used in the production of blow-molding film, such as general-purpose industrial packaging film, shopping bags, carrier bags, rolling bags, sundries bags and other high strength film products.

TYPICAL PROPERTY VALUES

Revision 20230323

Product Property		Specification	Test Method
Appearance	Colored pellets, number of pellets/kg	≤10	SH/T1541.1-2019
	Small and Large pellets g/kg	≤10	
Melt Flow Rate (2.16kg, 190°C), g/10mm		8.0-13.0	GB/T 3682.1-2018
Density, g/cm ³		0.955~0.959	GB/T 1033.2-2010
Tensile Strength MD, Mpa		≥65	GB/T 1040.3-2006
Tensile Strength TD, Mpa		≥50	
Tensile Strain at Break MD, %		≥450	
Tensile Strain at Break TD, %		≥470	
Dant Drop Impact Strength (film thickness: 0.015mm), g		MEASURED VALUE	GB/T 9639.1-2008
Haze (film thickness: 0.015mm), %		MEASURED VALUE	GB/T 2410-2008
Fisheye (0.8mm), pc/1520cm ³		≤3	GB/T 11115-2009
Fisheye (0.4mm), pc/1520cm ³		20	GB/T 11115-2009

PROCESSING CONDITIONS

Typical processing conditions for ACP9255B are: Barrel temperature range: 170-200°C.

HEALTH, SAFETY AND FOOD CONTACT REGULATIONS

The product mentioned herein is in particular not tested and therefore not valid for use in pharmaceutical/ medical application.



POLYETHYLENE

HD55110

Film Grade

Manufacturer:

ZHONGKE(GUANGDONG) REFINERY & PETROCHEMICAL COMPANY LIMITED

No.1, Zhongke Avenue, Zhanjiang Economic and Technological Development Zone, Zhanjiang

City, Guangdong Province

Typical Application

HD55110 is a commonly used HDPE film grade with high strength and excellent stiffness. It is mainly used in the production of product bags, shopping bags, packing films, etc.

Typical Data

Test Item	Test Method	Spec.	Typical Values (no warranty)	Unit
Black particle	SH/T 1541.1	0	0	pcs/kg
Colored particles	SH/T 1541.1	≤ 10	0	pcs/kg
Large and small pellet	SH/T 1541.1	≤ 100	0.00	g/kg
MFR (5kg)	GB/T 3682.1	0.22~0.26	0.24	g/10min
Density	GB/T 1033.1	953.0~959.0	957.3	kg/m ³
Chromaticity	CPC-IVD	≥ 200	323	/
Ash	GB/T 9345.1	As reported	0.028	wt%
Tensile yield strength	ASTM D638	≥ 20	29.5	Mpa
Tensile fracture stress	ASTM D638	≥ 20	25.1	Mpa
Elongation at break	ASTM D638	≥ 600	702	%
Dart impact strength	GB/T 9639.1	≥ 100	186	g
Tear resistance (Elemendorf method)	GB/T 16578.2	≥ 200	312.9	g(TD)

		TYPICAL GRADE	PRODUCER	MFR	APPLICATION
HDPE	YARN	7750Z	-SHANDONG SHOUGUANG LUQING PETROCHEMICAL	1.01	-ROPE -PACKAGING NET -TARPAULINS -FFS FILM -WOVEN BAG -FISHING NET -HOLLOW PRODUCTS -FILAMENT
		7750M	-HENGLI PETROCHEMICAL -SHANDONG DONGMING PETROCHEMICAL	1	
		6094	-CHN ENERGY NINGXIA COAL	1	
		5000S	-PETROCHINA -SINOPEC -HENGLI	0.9	SMALL HOLLOW CONTAINERS; AGRICULTURAL FILMS,ROPES,TWINES FILAMENTS
	INJECTION	62N07	-BCCO	7	-PALLETS, -BOXES AND CRATES
		2911/2911 FS	-PETROCHINA FUSHUN	20	-TOYS, CONTAINERS, -PLASTIC BUCKETS
		7260	-ZHEJIANG PETROCHEMICAL -SHANDONG DONGMING PETROCHEMICAL -PETROCHINA FUSHUN -SINOPEC HAINAN -SINOPEC GUANGDONG	8	-PLASTIC PALLETS, -TURNOVER BOXES, -BOTTLE CAPS, -SAFETY CAPS
		8008	-PETROCHINA -SINOPEC FUJIAN	8	-CASES AND BOXES FOR -INDUSTRIAL PARTS; -FARM PRODUCE AND -BEVERAGE CRATES; -PAILS AND BUCKETS.
		6080	-SINOCHEM QUANZHOU	7	-PAILS AND BUCKETS.
		8920	-SINOPEC FUJIAN	20	-TOYS, CONTAINERS, -PLASTIC BUCKETS
		5358	-ZHEJIANG PETROLEUM&CHEMICAL	3~4	-BOTTLE CAP
		FHP5050R	-PETROCHINA FUSHUN	2.5~3.5	
		3400J	-SINOPEC YANSHAN	2.26	

HDPE 7750Z



Benefits

- Low temperature resistant
- Good chemical stability
- Good toughness
- Good mechanical strength
- Good rigidity

Applications

- Rope
- FFS film
- Hollow products
- Packaging net
- Woven bag
- Filament
- Tarpaulins
- Fishing net

Typical properties

Characteristics	Value	Unit	Test Method
Physical	26.3		
MFR(190°C,2.16Kg)	1.01	g/10 min	GB/T3682.1-2018
Density	0.9513	g/cm ³	GB/T1033.2-2010
Mechanical			
Tensile Stress at Yield(σ_y)		Mpa	GB/T1040.2-2006
Nominal Tensile Strain at Break(ϵ_B)	751	%	GB/T1040.2-2006

Notes: The properties data in this table are typical values, and not guaranteed specification.

Packaging

7750Z is typically packed in Polypropylene woven bags with net weight of 25 kgs each.

Storage

7750Z should be stored in a ventilated, dry and clean warehouse with good fire facilities. The material is subjected to degradation by ultra-violet radiation or by high storage temperatures. Therefore the material must be protected from direct sunlight, temperatures above 40°C and high atmospheric humidity during storage. Further unfavorable storage conditions are large fluctuations in ambient temperature and high atmospheric humidity.

		TYPICAL GRADE	PRODUCER	MFR	APPLICATION
HDPE	BLOW MOULDING	B5703	-SINOPEC YANSHAN	0.35	-HOUSEHOLD AND INDUSTRIAL CHEMICAL -CONTAINERS -FOOD PACKAGING -PHARMACEUTICALS
		5502	-ZHEJIANG PETROCHEMICAL -SINOPEC JINFEI -SHANGHAI SECCO -SINOCHEN QUANZHOU -PETROCHINA DUSHANZI SINOPEC MAOMING -SINOPEC ZHONGKE	0.25	
		5831D	-BORA LYONDELLBASELL	0.9 - 1.5	-BLOW MOLDING APPLICATONS, CANS
			-PETROCHINA TARIM	0.8 - 1.4	-BOTTLES FOR INDUSTRIAL USE, JERRY CANS, SPORTS, LEISURE & TOYS
		B53-35H-001	-CNOOC	10.5	-FOOD GRADE, -GENERAL PURPOSE GRADE, -FILLING GRADE, -AUTO PARTS, ELECTRICAL AND ELEC- TRONIC PARTS, -HOME APPLIANCE PARTS
		B5502A	-CNOOC	0.20	
		5621D	-CNOOC	0.33	
	MEDIUM BLOW	5331A	-LYONDELLBASELL	6.5	-SHIPPING CONTAINERS JERRY CANS -FUEL CONTAINERS -AGRICULTURAL -CHEMICAL TANKS
		6147	-SINOPEC GUANGDONG	10	
		50100	-SINOPEC MAOMING -SINOPEC JINFEI -BAOFENG -SINOCHEN QUANZHOU	10	
		5401	-SHANGHAI SECCO	9.5	
		5411	-ZHEJIANG PETROCHEMICAL	7.14	
		5410	-SINOPEC ZHENHAI	9	
		5420	-PETROCHINA DUSHANZI	1.5-2.5	-LARGE DIAMETER, AIR TUBE
	LARGE BLOW	6149	-PETROCHINA DUSHANZI	2.0-2.8	
		8255	-PETROCHINA FUSHUN	8.5	
		1158	-SINOPEC QILU	1.7 ~ 2.5	
		1158H/1158HS	-SINOPEC ZHENHAI	2.5	
		571	-SINOCHEN QUANZHOU	2.5	

For any specific grades and needs, please feel free to contact our sales.

		TYPICAL GRADE	PRODUCER	MFR	APPLICATION
HDPE	PIPE 80	2480	-PETROCHINA DAQING	10	-FOR OIL AND GAS COLLECTION PIPES
		2480	-SINOPEC QILU	1.4-2.6	
		4406C	-SINOPEC MAOMING	0.11	
	PIPE 100 NATURAL	100N	-PETROCHINA FUSHUN	0.22	-WATER SUPPLY AND FUEL GAS PIPE
		100S	-SINOPEC JILIN	0.23	
		23050	-HENGLI PETROCHEMICAL -ZHEJIANG PETROCHEMICAL - BORA LYONDELLBASELL -YANCHANG PETROLEUM -SINOPEC HAINAN -SINOPEC GUANGDONG	0.23	
			-SABIC TIANJIN	0.39	
			-CNOOC	0.3	
			10N	-SINOCHEN QUANZHOU	0.3
			UHXP-4808	-PETROCHINA DUSHANZI	5.95
			YGH041	-SINOPEC SHANGHAI	0.25
	PIPE 100 BLACK	YGH041T	-SINOPEC SHANGHAI	0.3	-WATER SUPPLY AND FUEL GAS PIPE,- ALTERNATIVE TO BOROGUE 3488
		6006AD	-SABIC ASIA PACIFIC	0.23	-PRESSURE PIPES FOR PORTABLE WATER, GAS, SEWAGE AND OTHER LIQUIDS. -ALTERNATIVE TO BOROGUE 3488
		N3000B	-PETROCHINA DUSHANZI	0.3	-PRESSURE PIPES FOR PORTABLE WATER

For any specific grades and needs, please feel free to contact our sales.

SECCO HD5502FA

High Density Polyethylene

Product Description

HD5502FA is a hexene high density polyethylene resin with excellent process-ability, mechanical performance and environmental stress cracking resistance, which is widely used in various small blown molding products. They possess fair surface polish and stiffness.

Typical Applications

Blown Molding: Containers (< 5L) for food, lubricant and other general chemicals

Typical Property Values

Properties	Typical values	Units	Test methods
Physical Properties			
Melt Flow Rate (190°C/10 kg)	5.0	g/10min	GB/T 3682
Density (non-annealed)	0.953	g/cm ³	SECCO-LAB 0310
Melting Temperature (DSC)	132	°C	GB/T 19466.3
Mechanical Properties			
Tensile Strength at Yield	28	MPa	GB/T 1040.2
Tensile Elongation at Break	750	%	GB/T 1040.2
Flexural Modulus	1300	MPa	GB/T 9341
Charpy Impact Strength, notched (23°C)	9.5	kJ/m ²	GB/T 1043.1
Environmental Stress Cracking Resistance (Method B, 10% Igepal, F50)	>60	hr	GB/T 1842
Thermal Properties			
Heat Deflection Temperature (0.45 MPa)	68	°C	GB/T 1634.2
Vicat Softening Point (A ₅₀)	121	°C	GB/T 1633

Notes

- * ESCR value basically depends on the test method
- * These are typical properties only and should not be construed as specifications
- * Recommended processing temperature: 180 ~ 200°C

SECCO HD5401AA

High Density Polyethylene

Product Description

HD5401AA is a 1-hexane high density polyethylene resin with a broad molecular weight distribution, outstanding balance of stiffness, toughness and environmental stress cracking resistance, suitable for producing various blown molding containers of medium volume.

Typical Applications

Blown Molding: Containers (1-60L) for various chemicals (like pesticide, chemical reagent), food (like liquor, condiment, food additives) and daily chemicals

Typical Property Values

Properties	Typical values	Units	Test methods
Physical Properties			
Melt Flow Rate (190°C/21.6 kg)	9.5	g/10min	GB/T 3682.1
Density (non-annealed)	951.0	g/cm ³	Q31:01160003260001 Appendix D
Melting Temperature (DSC)	132	°C	GB/T 19466.3
Mechanical Properties			
Tensile Strength at Yield	27	MPa	GB/T 1040.2
Tensile Elongation at Break	700	%	GB/T 1040.2
Flexural Modulus	1300	MPa	GB/T 9341
Charpy Impact Strength, notched (23°C)	23	kJ/m ²	GB/T 1043.1
Environmental Stress Cracking Resistance (Method B, 10% Igepal, F50)	230	hr	GB/T 1842
Appearance Performances			
Whiteness	69	%	ASTME313
Thermal Properties			
Heat Deflection Temperature (0.45 MPa)	71	°C	GB/T 1634.2
Vicat Softening Point(A50)	125	°C	GB/T 1633

Notes

- * ESCR value basically depends on the test method
- * These are typical properties only and should not be construed as specifications



HDPE 23050

HIGH DENSITY POLYETHYLENE
REGION CHINA

DESCRIPTION

23050 is a natural colour pipe grade HDPE, contains reliable stabilizers. The product has high quality mechanical strength, excellent weather ability, long-term stability, excellent resistance to rapid cracking propagation and slow cracking growth, It is an ideal base resin for pressurized pipes.

TYPICAL APPLICATIONS

23050 is used to produce water pipes, drain, discharge pipe of seawater, thin-wall bellows, industrial pipes, and other compression-bearing pipes for drinking

TYPICAL PROPERTY VALUES

Product Property		Specification	Test Method
Appearance	Colored pellets, number of pellets/kg	≤10	SH/T1541.1
	Small and Large pellets g/kg	≤10	SH/T1541.1
Melt Flow Rate (kg, 190℃), g/10min		0.20~0.26	GB/T 3082.1
Density, g/cm ³		0.948-0.952	GB/T 1033.2
Tensile Strength at Yield, MPa		≥20.2	GB/T 1040.2
Tensile Fracture Nominal Strain, %		≥500	GB/T 1040.2
Notched Izod Impact Strength (23℃), kJ/m ²		≥23.0	GB/T 1043.1
Oxidative Induction Time(210℃), min		≥30	GB/T 19466.5
Volatile content, mg/kg		≤300	GB 15558.1

PROCESSING CONDITIONS

Typical processing conditions for 23050 are: Recommended processing temperature range: 180-230℃ .

HEALTH, SAFETY AND FOOD CONTACT REGULATIONS

The product mentioned herein is in particular not tested and therefore not validated for use in pharmaceutical/ medical applications.



中海壳牌石油化工有限公司
CNOOC and Shell Petrochemicals Company Limited



Product data sheet

PN 049-030-122

Characteristic

- High Density Polyethylene (HDPE)
- granularity
- Outstanding environmental cracking resistance
- High rigidity
- High impact strength (high crack expansion)
- good processing performance
- Anti-oxygen

Application:

PE 100 Pipe extrusion molding
-Water pipe and trachea

FUNCTION	METHOD	UNIT	VALUE
Melt Flow Rate (190 °C/5kg)	ISO 1133	g/10min	0.30
Density (23C)	ISO 1183	g/cm ³	0.949
tensile yield strength	ISO 527	MPa	24
elongation at break	ISO 527	%	≥300
modulus in tension	ISO 527	MPa	1100
Charpy impact strength	ISO 179	kJ/m	20
Vicat softening point	ISO 306	°C	128
environmental stress cracking			
F 50,50 °C,100% concentration	ASTM D 1693	Hours	>1000

(1) Typical value: it is not the product specification

(2) Recommended processing temperature:

Melting temperature: 180-240C

	TYPICAL GRADE	PRODUCER	MFR	APPLICATION
LDPE	1C7A	-SINOPEC YANSHAN	8	EXTRUSION COATING
	251	-SINOPEC ZHONGTIAN		
	251G	-SINOPEC ZHONGTIAN		
	7018	-BORA LYONDELLBASELL		
	7019EC	-SABIC	7	-SHOPPING BAGS; FOOD PACKAGING FILM; HYGIENE FILM; SHRINK FILM -FOAM
	19G	-CNPC DAQING	4	
	2426K	-CNPC SHENHUA BAOTOU -ZPC	4	
	2426H	-CNPC SHENHUA BAOTOU -ZPC	2	

		TYPICAL GRADE	PRODUCER	MFR	APPLICATION
LLDPE	FILM	218WJ	-SABIC ASIA PACIFIC	2	-LAMINATION FILM, -THIN LINERS, -SHOPPING BAGS, -CARRIER BAGS, -GARBAGE BAGS, -COEXTRUDED FILMS, -CONSUMER PACKAGING
		222WT	-SINOPEC SABIC TIANJIN PETROCHEMICAL	2	
		7050	-CHN ENERGY -PETROCHINA -CHINA COAL -WANHUA CHEMICAL -FUJIAN REFINARY	2	
		1102XBU	-EXXON MOBIL	2	
		218BJ/NJ	-SABIC ASIA PACIFIC	2	
		7042	-PETROCHINA -SINOPEC ZHENHAI -CHN ENERGY -CHINA COAL -CNOOC AND SHELL PETROCHEMICALS	2	
		LEF35BN	-LUQING PETROCHEMICAL	2	
		7047	-WANHUA CHEMICAL -PETROCHINA -CHINA COAL	1	
		9047	-PETROCHINA DAQING	1	
		LEF34	-LUQING PETROCHEMICAL	1	
		118WJ	-SABIC	1	
		118NJ	-SABIC	1	
	INJECTION	M200024T	-SABIC ASIA PACIFIC	20	-HOUSEWARES, -TRASH CANS, -AUTOMOTIVE PARTS, -LIDS AND LARGE INDUS -TRIAL CONTAINERS
		M500026T	-SABIC ASIA PACIFIC	50	-LIDS FOR CLOSURES AND CONTAINERS -DEEP DRAW HOUSEWARE -PRODUCTS AUTOMOTIVE PARTS.
		8320	-ZPC -CHN ENERGY SHENHUA -PETROCHINA DAQING	20	
		2750	-SINOPEC	50	
		2650	-SINOPEC -TIANLIAN	50	

For any specific grades and needs, please feel free to contact our sales.



PE-POLYETHYLENE



WanHua Chemical Group Co., Ltd. DFDC 7050

检测项目 Test Item(s)	优等品技术标准要求 Technical Specification	检测结果 Test Result	测试方法 Test Method
色粒, 个/kg Color granule, pcs/kg	≤10	0	SH/T 1541-2019
黑粒, 个/kg Black granule, pcs/kg	0	0	SH/T 1541-2019
大粒和小粒, g/kg Large and small granule, g/kg	≤5	0.4	SH/T 1541-2019
熔体质量流动速率 MFR(190°C, 2.16kg), g/10min Melt flow rate(MFR), g/10min	1.8~2.2	2.10	GB/T 3682.1-2018
密度, g/cm ³ Density, g/cm ³	0.919~0.923	0.9199	GB/T 1033.2-2010
雾度, % Haze, %	≤25	16.4	GB/T 2410-2008
鱼眼 0.8mm, 个/1520cm ² Gel 0.8mm, pcs/1520cm ²	≤6	0	GB/T 11115-2009
鱼眼 0.4mm, 个/1520cm ² Gel 0.4mm, pcs/1520cm ²	≤15	1	GB/T 11115-2009



LLDPE LEF-34

Description

LEF-34 resins are linear low density polyethylene designed for the blown film process. Films made from LEF-34 resins have very good tensile and toughness properties. LEF-34 resin is a granular material suitable for both compounding and film production.

Benefits

- Excellent transparency
- Stress cracking resistance
- Good stretchability
- Low temperature impact resistance
- Puncture resistance
- Excellent processability

Applications

- Agricultural film
- Lining film, coating
- Food packaging
- Complex films
- Wrapping Film
- Irrigation belt

Typical properties

Characteristics	Value	Unit	Test Method
Physical			
MFR(190°C, 2.16Kg)	1.0	g/10 min	GB/T3682.1-2018
Density	0.9189	g/cm ³	GB/T1033.2-2010
Mechanical			
Tensile Stress at Yield	10.8	Mpa	GB/T1040.2-2006
Tensile Stress at Break	15.3	Mpa	GB/T1040.2-2006
Elongation at Break	350	%	GB/T1040.2-2006

Notes: The properties data in this table are typical values, not to be construed as guaranteed specifications.

For any specific grades and needs, please feel free to contact our sales.



China Coal Shaanxi Energy Co., Ltd.

PRODUCT QUALITY CERTIFICATE

NUMBER: 2022-PE-0422

REPORT DATE: 2022-05-11

PRODUCT NAME	POLYETHELENE RESIN(DNDA-8320)			TESTING STANDARD	Q/ZMSX 002-2021
BATCH NUMBER	20220511310			SAMPLING BATCH NO	D-8010A
PROJECTS	INDEX			TESTING RESULT	TESTING METHOD
	EXCELLENCE	FIRST-CLASS	QUALIFIED		
COLOR PARTICLE, PC/kg	≤10	≤15	≤20	0	SH/T 1541.1
BLACK PARTICLE, PC/kg	0	0	0	0	SH/T 1541.1
DENSITY NOMINAL VALUE, g/cm3	0.922-0.926	0.921-0.927	0.921-0.927	0.925	GB/T 1033.2
Density deviation, g/cm3	±0.002	±0.003	±0.003	0.001	GB/T 1033.2
MI, g/10min	18.0-22.0	17.0-23.0	16.0-24.0	21.1	GB/T 3682.1
TENSILE YIELD STRESS, MPa	≥9	≥8	≥8	9.73	GB/T 1040.2
TENSILE FRACTURE STRESS, MPa	≥4	≥4	≥4	11.5	GB/T 1040.2
TENSILE NOMINAL STRAIN AT BREAK, %	≥400	≥400	≥400	630	GB/T 1040.2
CHARPY NOTCHED IMPACT STRENGTH (23℃), kJ/m2	≥40	≥20	≥20	65P	GB/T 1043.1
TESTING CONCLUSION	EXCELLENT GOODS				
主检	刘利飞				
审核	张园				
批准	闫书书				
备注					

地址: 陕西省榆林市高新区榆马大道北B1路东

PVC

Carbide Based Grades

NO.	SPECIFICATION	SG-3	SG-5	SG-7	SG-8
01	K Value	71-72	66-68	60-62	55-59
02	Volatiles(Incl. Water)%≤	0.30	0.40	0.40	0.40
03	Bulk Density g/ml≥	0.45	0.48	0.50	0.50
04	Sieve Ratio% 0.25mm ≤	2.0	2.0	2.0	2.0
05	Sieve Ratio%0.063mm≥	95	95	95	95
06	"Fish Eye" Number Unit/400c m ² ≤	20	20	30	30
07	100g Resin Plasticizer Absorbion g ≥	26	19	12	22
08	Residual VCM PPM≤	5.0	5.0	5.0	5.0

Ethylene Based Grades

NO.	SPECIFICATION	HS-1300	HS-1000R	HS-800	HS-700
01	K Value	71-72	66-68	60-62	55-59
02	Volatiles(Incl. Water)%≤	0.30	0.30	0.30	0.30
03	Bulk Density g/ml≥	0.48	0.53	0.53	0.53
04	Sieve Ratio%0.25mm≤	1.0	1.0	2.0	2.0
05	Sieve Ratio% 0.063mm≥	98	98	97	97
06	"Fish Eye" Number Unit/400c m ² ≤	10	10	20	20
07	100g Resin Plasticizer Absorbion g≥	28	19	16	14
08	Residual VCM PPM≤	1.0	1.0	1.0	1.0

Applications

PVC IS USED IN A VARIETY OF APPLICATIONS IN THE BUILDING AND CONSTRUCTION, HEALTH CARE, ELECTRONICS, AUTOMOBILE AND OTHER SECTORS, SUCH AS PROFILES, FILMS, SHEETS, TUBES, SHOES, FITTINGS, ETC.

PS

PS	-GPPS UNION KING NEW MATERIAL LIWAN 525	GPPS AND HIPS ARE WIDELY USED IN AUTOMOBILES, ELECTRONIC AND ELECTRICAL APPLIANCES, APPARATUS PARTS, BUILDINGS, MEDICAL CARE, ETC. GPPS CAN BE USED TO MAKE DAILY NECESSITIES, ELECTRICAL INSTRUMENT SHELLS, TOYS, LAMPS, COSMETIC CONTAINERS, DECORATIONS, OPTICAL PARTS (SUCH AS TRIANGULAR PRISMS AND LENS), AUTO HEADLIGHTS, TELECOM ACCESSORIES, CAPACITOR FILMS, HIGH FREQUENCY INSULATING MATERIALS, WAVE-GUIDE TUBES, CHEMICAL VESSELS, STRUCTURAL FOAM PRODUCTS, ETC. HIPS CAN BE USED TO MAKE SHELLS OF ELECTRICAL HOUSEHOLD APPLIANCES REFRIGERATOR LINING, PLATES, TV SETS, RECORDERS, TELEPHONE BODY CASES, STATIONARY TOYS, PACKAGING VESSELS, DAILY NECESSITIES, DISHWARE, ETC.
	-HIPS UNION KING NEW MATERIAL LIWAN 825	

ABS

ABS resin is a terpolymer of three monomers of acrylonitrile, butadiene and styrene, and has the common properties of the three components. Therefore, ABS has good rigidity, high impact strength, good heat resistance, good resistance for low temperature, good chemical resistance, excellent mechanical strength and electrical properties. It is easy for processing, as it has good processing dimensional stability and surface gloss. It is also easy to paint and color, and can also be sprayed, secondary processing such as electroplating, welding and bonding.

The largest application areas of ABS resin are house-hold appliances, office equipment, transportation, daily necessities, toys and building materials. It is also used in packaging, furniture, sports and entertainment, machinery and instrumentation industries.

Specification	Typical Grade	Producer	MFR	Features	Application
General Grade	ZA0210	ZPC	20-22	High stiffness, high gloss	Home appliances, electronic and electrical products
	ZA0211		20-22	Elliptical particle, good dye-ability	Home appliances, toys, etc.
	ZA0300		5-8	High impact resistance	Helmet, heels, bags, etc.
	0215A	PETROCHINA	18-24	High gloss, High fluidity	Air conditioner shell, electric fan shell
	0215H	JILIN	18-24		
Plate Grade	ZA1300	ZPC	7-10	High impact resistance, extrusion molding	Pipes, refrigerator parts, etc.
Flame Retardant Grade	ZA323A	ZPC	38-48	Flame retardance	Control box, battery, socket, etc.
Injection Molding Grade	DG-MG29	TIANJIN DAGU	10	Ultra High Impact	Auto parts, home appliance parts and high-end plastic products
	DG-MG94		35		
	DG-407		15-25		
	DG-417		19		

POM

	GRADE	APPLICATION
POM	-CHONGQING YUNTIANHUA TIANJUXINCAI -CHN ENERGY M270,M90	POLYOXYMETHYLENE (POM), ALSO KNOWN AS ACETAL, POLYACETAL, AND POLYFORMALDEHYDE, IS AN ENGINEERING THERMOPLASTIC USED IN PRECISION PARTS REQUIRING HIGH STIFFNESS, LOW FRICTION, AND EXCELLENT DIMENSIONAL STABILITY. POM IS WIDELY USED IN AUTOMOBILE, MACHINERY MANUFACTURING, ELECTRONIC APPLIANCES, CONSTRUCTION, PLUMBING MATERIALS, ETC.

EVA

ETHYLENE VINYL ACETATE (EVA) IS A COPOLYMER OF ETHYLENE AND VINYL ACETATE.

EVA HAS AN ELASTOMERIC PROPERTY WHICH MEANS IT HAS A SOFTNESS AND FLEXIBILITY LIKE RUBBER EVA IS PRODUCED IN AN AUTOCLAVE OR TUBULAR PRODUCTION PROCESS AND CAN BE FOUND OFTEN BEING PRODUCED IN LDPE PLANTS.

THE BROAD SPECTRUM OF CHARACTERISTICS ALLOWS EVA TO BE USED IN A LARGE NUMBER OF APPLICATIONS AS FOLLOWS

- HOT MELT ADHESIVES
- FILM/STRETCH HOOD
- FLEXIBLE PACKAGING AND PIPES
- SHOES
- FLEXIBLE FOAMS
- PHOTOVOLTAIC ENCAPSULATION
- CORKS
- TOYS
- MEDICAL APPLICATIONS
- COMPOUNDS

TYPICAL GRADE	PRODUCER	VA CONTENT	MFR
14J6	SINOPEC YANSHAN	14	6
18J3	SINOPEC YANSHAN	18	3
19F-17W	SINOPEC YANSHAN	18	15.4
18C4	SINOPEC YANSHAN	18	4
19F16	SINOPEC YANSHAN	18	15
28J6	SINOPEC YANSHAN	28	6
	SINOPEC YANGZI	28	6
2860	SINOPEC YANGZI	28	6
V2825	SIERBANG PETROCHEMICAL	28	24-28
19F16	SINOPEC YANSHAN	19	15

PET

Polyethylene terephthalate is produced from ethylene glycol (usually referred to in the trade as "MEG", for monoethylene glycol) and dimethyl terephthalate (DMT) ($C_6H_4(CO_2CH_3)_2$) but mostly terephthalic acid (known in the trade as "PTA", for purified terephthalic acid).

Polyethylene terephthalate (PET) is a polar plastic material from the family of polyesters. PET shows good sliding and wear behavior, and retains a high breaking strength and shape retention, even at elevated temperatures.

PET is the most common thermoplastic polymer resin of the polyester family and is used in fibres for clothing, containers for liquids and foods, and thermoforming for manufacturing, and in combination with glass fibre for engineering resins.

TYPICAL GRADE	PRODUCER	APPLICATION	I.V.(dL/g)
CR-8816L	CHINA RESOURCES	Water Grade	0.760+/-0.02
CR-8816	CHINA RESOURCES	Water Grade	0.800+/-0.02
CR-8828	CHINA RESOURCES	CSD Grade	0.850+/-0.02
CR-8839	CHINA RESOURCES	Hot Fill Grade	0.800+/-0.02
CZ-302	SANFAME GROUP	Water Grade	0.800+/-0.015
CZ-302A	SANFAME GROUP	Fast Reheat Grade	0.800+/-0.015
CZ-302L	SANFAME GROUP	Water Grade-Mini	0.780+/-0.015
CZ-318	SANFAME GROUP	Oil Grade	0.830+/-0.015
CZ-328	SANFAME GROUP	CSD Grade	0.860+/-0.015
CZ-328A	SANFAME GROUP	CSD-Fast Reheat	0.855+/-0.015
CZ-333	SANFAME GROUP	Hot Fill Grade	0.800+/-0.015
CZ-328H	SANFAME GROUP	Big Size Bottle	0.875+/-0.015
WK-801	WANKAI	Water Grade	0.800+/-0.020
WK-801L	WANKAI	Water Grade	0.770+/-0.020
WK-811	WANKAI	Hot Fill Grade	0.790+/-0.020
WK-811L	WANKAI	Hot Fill Grade	0.760+/-0.020
WK-821	WANKAI	Oil Grade	0.830+/-0.020
WK-851	WANKAI	CSD Grade	0.880+/-0.020
WK-881	WANKAI	CSD Grade	0.870+/-0.020
WK-901	WANKAI	Big Size Bottle	0.870+/-0.020
WK-631	WANKAI	BOPET Film Grade	0.640+/-0.020
YS-W01	YISHENG	Water Grade	0.800+/-0.015
YS-H01	YISHENG	Hot Fill Grade	0.780+/-0.015
YS-Y01	YISHENG	Oil Grade	0.830+/-0.015
YS-C01	YISHENG	CSD Grade	0.875+/-0.015
YS-C02	YISHENG	Fast Reheat Grade	0.870+/-0.015

For any specific grades and needs, please feel free to contact our sales.

PA

A polyamide is a polymer with repeating units linked by amide bonds.

Polyamides occur both naturally and artificially. Examples of naturally occurring polyamides are proteins, such as wool and silk. Artificially made polyamides can be made through step-growth polymerization or solid-phase synthesis yielding materials such as nylons, aramids, and sodium polyaspartate. Synthetic polyamides are commonly used in textiles, automotive industry, carpets, kitchen utensils and sportswear due to their high durability and strength. The transportation manufacturing industry is the major consumer, accounting for 35% of polyamide (PA) consumption.

Polymers of amino acids are known as polypeptides or proteins.

According to the composition of their main chain, synthetic polyamides are classified as follows:

Family	Main chain	Examples
Aliphatic polyamides	Aliphatic	Nylon PA 6 and PA 66
Polyphthalamides	Semi-aromatic	PA 6T = Hexamethylenediamine + terephthalic acid
Aromatic polyamides, or aramids	Aromatic	Paraphenylenediamine + terephthalic acid

PC

Polycarbonates (PC) are a group of thermoplastic polymers containing carbonate groups in their chemical structures. Polycarbonates used in engineering are strong, tough materials, and some grades are optically transparent. They are easily worked, molded, and thermoformed. Because of these properties, polycarbonates find many applications:

- Electronic components
- Construction materials
- 3D Printing
- Data storage
- Automotive, aircraft, and security components
- Niche applications
- Medical applications
- Mobile phones

The common methods to produce polycarbonate parts are:

Extrusion

Injection molding

Blow molding

Thermoforming

There are various industry grades of polycarbonate available. Most are called by the generic name (polycarbonate) and are typically differentiated by the amount of glass fiber reinforcing they contain and the variance in melt flow between them. Some polycarbonates have additives such as “ultraviolet stabilizers” that protect the material from long-term exposure to the Sun. Injection moldable polycarbonate might include other additives such as mold release agents that lubricate the material during processing. Finished polycarbonate is typically sold in cylinders, rods or sheets.

Test items		Test Conditions	Test standards	Unit	PC02 -10	PC02 -10R	PC02 -10L	PC02 -10UR	PC02 -20	PC02 -15
Particle Appearance	Lab chromaticity b value	CIE Lab	ASTM D2244		1±1	-3.5 ±0.7	≤5	-3.5±0.7	1±1	1±1
	Focal / yellow grains / foreign matter	grains/kg	A 10 x magnification lens	granule	≤1	≤1	≤1	≤1	≤1	≤1
Physical property	Density	23°C	ISO 1183	kg/m³	1200±100	1200 ±100	1200 ±100	1200±100	1200±100	1200±100
	Melt flow rate	300°C/1.2kg	ISO 1133	g/10min	10±1	10±1	10±1	10±1	20±2	15±1.5
Optics function	Transmittance	2mm	ASTM D1003	%	≥89	≥89	≥89	≥87	≥89	≥89
	Izod Notched impact strength	23°C/3.2mm	ASTM D256	J/m	≥700	≥700	≥700	≥700	≥600	≥600
	Tensile Strength	50mm/min	ISO 527- 1-2	MPa	≥60	≥60	≥60	≥60	≥60	≥60
	Elongation at break	50mm/min	ISO 527- 1-2	%	≥105	≥105	≥105	≥105	≥105	≥105
	Bending strength	2mm/min	ISO 178	MPa	≥85	≥85	≥85	≥85	≥85	≥85
	Flexural modulus	2mm/min	ISO 178	MPa	≥2350	≥2350	≥2350	≥2350	≥2350	≥2350

For any specific grades and needs, please feel free to contact our sales.

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