TOTAL Polypropylene PPH 4026

Polypropylene Homopolymer

TOTAL Refining & Chemicals

Message:

Polypropylene PPH 4026 is a homopolymer with a Melt Flow Index of 3 g/10 min for the cast extrusion of films with outstanding stiffness and heat resistance.
Polypropylene PPH 4026 is intended for applications like hot fill food packaging, labeling, twist or lamination films.
Polypropylene PPH 4026 is a polypropylene homopolymer specifically developed to offer outstanding process ability for sheet extrusion and thermoforming applications.
Polypropylene PPH 4026 is characterized by a higher stiffness than conventional nucleated homopolymers, a good impact resistance and an excellent clarity. Polypropylene PPH 4026 allows for wall thickness reduction while maintaining appropriate top load and crush resistances.
Polypropylene PPH 4026 has excellent organoleptic properties making it suitable for the most sensitive packaging application.

General Information	
Features	Good Impact Resistance Good Organoleptic Properties Good Processability High Clarity High Heat Resistance High Stiffness Homopolymer
Uses	Film Labels Laminates Packaging Sheet
Agency Ratings	EC 1907/2006 (REACH)
RoHS Compliance	RoHS Compliant
Processing Method	Cast Film Sheet Extrusion Thermoforming

Physical	Nominal Value	Unit	Test Method
Density	0.905	g/cm³	ISO 1183
Apparent Density	0.53	g/cm³	ISO 60
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	3.0	g/10 min	ISO 1133
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	95		ISO 2039-2
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	2050	MPa	ISO 527-2

Tensile Stress (Yield)	39.0	MPa	ISO 527-2
Tensile Strain (Yield)	9.0	%	ISO 527-2
Flexural Modulus	2000	MPa	ISO 178
Films	**Nominal Value**	**Unit**	**Test Method**
Film Thickness - Tested	50	µm	
Tensile Stress			ISO 527-3
MD : Yield, 50 µm, Cast Film	31.0	MPa	
TD : Yield, 50 µm, Cast Film	29.0	MPa	
MD : Break, 50 µm, Cast Film	62.0	MPa	
TD : Break, 50 µm, Cast Film	35.0	MPa	
Tensile Elongation			ISO 527-3
MD : Break, 50 µm, Cast Film	470	%	
TD : Break, 50 µm, Cast Film	580	%	
Dart Drop Impact (50 µm, Cast Film)	80	g	ISO 7765-1
Elmendorf Tear Strength [1]			ISO 6383-2
MD : 50.0 µm	6.0	kN/m	
TD : 50.0 µm	88.0	kN/m	
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	6.0	kJ/m^2	ISO 179
Notched Izod Impact Strength (23°C)	5.0	kJ/m^2	ISO 180
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, Unannealed	110	°C	ISO 75-2/B
1.8 MPa, Unannealed	60.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	153	°C	ISO 306/A50
--	97.0	°C	ISO 306/B50
Melting Temperature (DSC)	165	°C	ISO 3146
Optical	**Nominal Value**	**Unit**	**Test Method**
Gloss (45°, 50.0 µm, Cast Film)	51		ASTM D2457
Haze (50.0 µm, Cast Film)	14	%	ISO 14782
NOTE			
1.	Cast Film		

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China