

Refining & Chemicals
 Polymers

Description

Polypropylene PPH 6088 is a homopolymer with a Melt Flow Index of 9 g/10 min for the cast extrusion of films with excellent optical properties and good stiffness.

Polypropylene PPH 6088 is formulated with slip and anti-block agents. It is recommended for food packaging, textile packaging, flowers packaging, lamination films and stationary supplies.

Characteristics

	Method	Unit	Typical Value
Rheological properties			
Melt Flow Index 230°C/2.16 kg	ISO 1133	g/10 min	9
Mechanical properties			
Tensile Strength at Yield	ISO 527-2	MPa	30
Elongation at Yield	ISO 527-2	%	10
Tensile modulus	ISO 527-2	MPa	1400
Flexural modulus	ISO 178	MPa	1300
Izod Impact Strength (notched) at 23°C	ISO 180	kJ/m ²	4
Charpy Impact Strength (notched) at 23°C	ISO 179	kJ/m ²	5
Hardness Rockwell - R-scale	ISO 2039-2		95
Thermal properties			
Melting Point	ISO 3146	°C	160
Vicat Softening Point	ISO 306	°C	
50N-50°C per hour			87
10N-50°C per hour			152
Heat Deflection Temperature	ISO 752	°C	
1.80 MPa - 120°C per hour			55
0.45 MPa - 120°C per hour			100
Other physical properties			
Density	ISO 1183	g/cm ³	0.905
Bulk Density	ISO 1183	g/cm ³	0.525
Additives			
Antiblock (SiO ₂) typical content	TOTAL method	ppm	1890
Slip (Erucamide) typical content	TOTAL method	ppm	1890

Handling and storage

Please refer to the safety data sheet (SDS) for handling and storage information. It is advisable to convert the product within one year after delivery provided storage conditions are used as given in the SDS of our product. SDS may be obtained from the website: <http://www.totalrefiningchemicals.com>

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Additional Properties: typical film properties

	Method	Unit	Typical Value
Optical properties			
Gloss 45°	ASTM D 2457		89
Haze	ISO 14782	%	1.4
Mechanical properties			
Tensile Strength at Yield MD / TD *	ISO 527-3	MPa	22 / 22
Tensile Strength at Break MD / TD *	ISO 527-3	MPa	60 / 55
Tensile Elongation at Break MD / TD *	ISO 527-3	%	700 / 700
Dart Impact	ISO 7765-1	g	280
Elmendorf MD / TD *	ISO 6383-2	N/mm	14 / 27

* MD : Machine Direction TD : Transverse Direction

Properties measured on a 50µm thick film produced on a cast film line following TOTAL internal conditions.

When considering these film properties, it should be taken into consideration that film properties are strongly dependent from processing conditions.

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