

Total PPH 6088 Polypropylene Homopolymer, Cast Film

Category : Polymer , Film , Thermoplastic , Polypropylene (PP) , Polypropylene, Film Grade

Material Notes:

Polypropylene PPH 6088 is a homopolymer polypropylene with a Melt Flow index of 9 g/10 min for the cast extrusion of film with excellent optical properties and good sterilizability. 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. Information provided by Total Petrochemicals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Total-PPH-6088-Polypropylene-Homopolymer-Cast-Film.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.905 g/cc	0.905 g/cc	ISO 1183
Bulk Density	0.525 g/cc	0.0190 lb/in ³	ISO 1183
Thickness	50.0 microns	1.97 mil	
Melt Flow	9.0 g/10 min @Load 2.16 kg, Temperature 230 °C	9.0 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133
Antiblock Level	1800 ppm	1800 ppm	SiO ₂
Slip Level	1800 ppm	1800 ppm	Erucamide

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	95	95	ISO 2039-2
Film Tensile Strength at Yield, MD	22.0 MPa	3190 psi	ISO 527-3
Film Tensile Strength at Yield, TD	22.0 MPa	3190 psi	ISO 527-3
Tensile Strength, Yield	30.0 MPa	4350 psi	ISO 527-2
Film Elongation at Break, MD	700 %	700 %	ISO 527-3
Film Elongation at Break, TD	700 %	700 %	ISO 527-3
Elongation at Yield	10 %	10 %	ISO 527-2
Tensile Modulus	1.40 GPa	203 ksi	ISO 527-2
Flexural Modulus	1.30 GPa	189 ksi	ISO 178
Izod Impact, Notched (ISO)	4.00 kJ/m ²	1.90 ft-lb/in ²	ISO 180
Charpy Impact, Notched	0.500 J/cm ²	2.38 ft-lb/in ²	ISO 179

Mechanical Properties <th, md<="" th=""> <th>Metric^{micron}</th> <th>English^{mil}</th> <th>Comments</th> </th,>	Metric ^{micron}	English ^{mil}	Comments
Elmendorf Tear Strength, TD	2.80 g/micron	71.1 g/mil	ISO 6383-2
Dart Drop Test	280 g	0.617 lb	ISO 7765-1
Film Tensile Strength at Break, MD	60.0 MPa	8700 psi	ISO 527-3
Film Tensile Strength at Break, TD	55.0 MPa	7980 psi	ISO 527-3

Thermal Properties	Metric	English	Comments
Melting Point	160 °C	320 °F	ISO 3146
Deflection Temperature at 0.46 MPa (66 psi)	100 °C	212 °F	120°C per hour; ISO 752
Deflection Temperature at 1.8 MPa (264 psi)	55.0 °C	131 °F	120°C per hour; ISO 752
Vicat Softening Point	87.0 °C @Load 5.10 kg	189 °F @Load 11.2 lb	50°C per hour; ISO 306
	152 °C @Load 1.02 kg	306 °F @Load 2.25 lb	50°C per hour; ISO 306

Optical Properties	Metric	English	Comments
Haze	1.4 %	1.4 %	ISO 14782
Gloss	89 %	89 %	at 45°; ASTM D2457

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