

Total PPH 6080 Polypropylene Homopolymer, Cast Film

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

Material Notes:

Polypropylene PPH 6080 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 6080 can be used as single layer films as well as the core layer of coextruded films, for food packaging, hosiery packaging, shirt packaging, lamination films, ... as well as for stationary supplies. Information provided by Total Petrochemicals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Total-PPH-6080-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

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	95	95	ISO 2039-2
Film Tensile Strength at Yield, MD	23.0 MPa	3340 psi	ISO 527-3
Film Tensile Strength at Yield, TD	23.0 MPa	3340 psi	ISO 527-3
Tensile Strength, Yield	30.0 MPa	4350 psi	ISO 527-2
Film Elongation at Break, MD	650 %	650 %	ISO 527-3
Film Elongation at Break, TD	600 %	600 %	ISO 527-3
Elongation at Yield	10 %	10 %	ISO 527-2
Tensile Modulus	1.45 GPa	210 ksi	ISO 527-2
Flexural Modulus	1.35 GPa	196 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
Elmendorf Tear Strength, MD	1.70 g/micron	43.2 g/mil	ISO 6383-2
Elmendorf Tear Strength, TD	2.00 g/micron	50.8 g/mil	ISO 6383-2

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Break, MD	51.0 MPa	7400 psi	ISO 527-3
Film Tensile Strength at Break, TD	42.0 MPa	6090 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	189 °F	50°C per hour; ISO 306
	@Load 5.10 kg	@Load 11.2 lb	
	152 °C	306 °F	50°C per hour; ISO 306
	@Load 1.02 kg	@Load 2.25 lb	

Optical Properties	Metric	English	Comments
Haze	0.10 %	0.10 %	ISO 14782
Gloss	91 %	91 %	at 45°; ASTM D2457

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