

Total PPR 6280 Random Copolymer Polypropylene, Cast Film Extrusion Grade

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

Material Notes:

Total Petrochemicals PPR 6280 is a random copolymer polypropylene with a melt flow index of 7 g/10 min suitable for the cast extrusion of films with outstanding optical properties and easy heat weldability. Polypropylene PPR 6280 is intended for food, textile or magazine packaging, for 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-PPR-6280-Random-Copolymer-Polypropylene-Cast-Film-Extrusion-Grade.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.902 g/cc	0.902 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	7.0 g/10 min @Load 2.16 kg, Temperature 230 °C	7.0 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	86	86	ISO 2039-2
Film Tensile Strength at Yield, MD	19.0 MPa	2760 psi	ISO 527-3
Film Tensile Strength at Yield, TD	19.0 MPa	2760 psi	ISO 527-3
Tensile Strength, Yield	27.0 MPa	3920 psi	ISO 572-2
Film Elongation at Break, MD	680 %	680 %	ISO 527-3
Film Elongation at Break, TD	650 %	650 %	ISO 527-3
Elongation at Yield	10 %	10 %	ISO 572-2
Tensile Modulus	1.05 GPa	152 ksi	ISO 572-2
Flexural Modulus	0.950 GPa	138 ksi	ISO 178
Izod Impact, Notched (ISO)	6.00 kJ/m ²	2.86 ft-lb/in ²	ISO 180
Charpy Impact, Notched	0.800 J/cm ²	3.81 ft-lb/in ²	ISO 179
Elmendorf Tear Strength, MD	1.80 g/micron	45.7 g/mil	ISO 6383-2
Elmendorf Tear Strength, TD	3.60 g/micron	91.4 g/mil	ISO 6383-2
Dart Drop Test	270 g	0.595 lb	ISO 7765-1

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Break, MD	35.0 MPa	7900 psi	ISO 527-3
Film Tensile Strength at Break, TD	44.0 MPa	6380 psi	ISO 527-3

Thermal Properties	Metric	English	Comments
Melting Point	145 °C	293 °F	ISO 3146
Vicat Softening Point	67.0 °C @Load 5.10 kg	153 °F @Load 11.2 lb	50°C per hour; ISO 306
	130 °C @Load 1.02 kg	266 °F @Load 2.25 lb	50°C per hour; ISO 306

Optical Properties	Metric	English	Comments
Haze	0.40 %	0.40 %	ISO 14782
Gloss	89 %	89 %	at 45°; ASTM D2457

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