

Total PPH 4069 Polypropylene Homopolymer, Fiber

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

Material Notes:

Polypropylene PPH 4069 is a homopolymer polypropylene with a Melt Flow index of 4 g/10 min. Polypropylene PPH 4069 is intended for extrusion of high tenacity staple fibers for non-woven applications. It exhibits excellent spinning properties. Polypropylene PPH 4069 has an anti gas-fading formulation to reduce yellowing in fibers. Information provided by Total Petrochemicals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Total-PPH-4069-Polypropylene-Homopolymer-Fiber.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
Melt Flow	4.0 g/10 min @Load 2.16 kg, Temperature 230 °C	4.0 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
Tensile Strength, Yield	35.0 MPa	5080 psi	ISO 527-2
Elongation at Yield	10 %	10 %	ISO 527-2
Tensile Modulus	1.55 GPa	225 ksi	ISO 527-2
Flexural Modulus	1.45 GPa	210 ksi	ISO 178
Izod Impact, Notched (ISO)	3.50 kJ/m ²	1.67 ft-lb/in ²	ISO 180
Charpy Impact, Notched	0.450 J/cm ²	2.14 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
Melting Point	164 °C	327 °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	85.0 °C @Load 5.10 kg	185 °F @Load 11.2 lb	50°C per hour; ISO 306
	150 °C	302 °F	50°C per hour; ISO 306

Thermal Properties

Metric
@Load 1.02 kg

English
@Load 2.25 lb

Comments

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