

Total PPH 10099 Polypropylene, Homopolymer

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

ATOFINA Polypropylene PPH 1099 is a controlled-rheology homopolymer having a very narrow molecular weight distribution. PPH 10099 is characterized by high fluidity for high speed spinning on spunlaid non-woven lines. Application PPH 10099 has been formulated to provide very high speed spinning characteristics and exhibits good thermal bonding behavior. PPH 10099 has a special anti gas-fading formulation to reduce yellowing in fibers. Information provided provided by Total Petrochemicals. Total Petrochemicals acquired former Fina and Atofina plastics product lines.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Total-PPH-10099-Polypropylene-Homopolymer.php

Physical Properties	Metric	English	Comments
Bulk Density	0.525 g/cc	0.0190 lb/in ³	ISO 1183
Density	0.905 g/cc	0.0327 lb/in ³	ISO 1183
Melt Flow	35 g/10 min @Load 2.16 kg, Temperature 230 °C	35 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	92	92	ISO 2039-2
Tensile Strength, Yield	30.0 MPa	4350 psi	ISO 527-2
Elongation at Yield	10 %	10 %	ISO 527-2
Tensile Modulus	1.30 GPa	189 ksi	ISO 527-2
Flexural Modulus	1.20 GPa	174 ksi	ISO 527-2
Izod Impact, Notched (ISO)	3.00 kJ/m ²	1.43 ft-lb/in ²	ISO 179
Charpy Impact, Notched	0.350 J/cm ²	1.67 ft-lb/in ²	ISO 179

Thermal Properties	Metric	English	Comments
Melting Point	165 °C	329 °F	ISO 3146
Deflection Temperature at 0.46 MPa (66 psi)	95.0 °C	203 °F	120°C per hour; ISO 75-2
Deflection Temperature at 1.8 MPa (264 psi)	52.0 °C	126 °F	120°C per hour; ISO 75-2
Vicat Softening Point	80.0 °C	176 °F	50N-50°C per hour; ISO 306

Thermal Properties	148 °C Metric	298 °F English	10N-50°C per hour; ISO 306 Comments
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