

ExxonMobil PP1014H1 Polypropylene Homopolymer

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

Product Description: A homopolymer resin that meets certified requirements for use in Medical and Pharmaceutical applications. **Availability:** Europe and North America **Features:** Autoclave Sterilizable Ethylene Oxide Sterilizable Low Extractables Steam Sterilizable **Uses:** Labware Medical Packaging Medical/Healthcare Applications **Processing Method:** Injection Molding **Information provided by ExxonMobil**

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-PP1014H1-Polypropylene-Homopolymer.php

Physical Properties	Metric	English	Comments
Density	0.900 g/cc	0.0325 lb/in ³	ExxonMobil Method
Melt Flow	16 g/10 min @Load 2.16 kg, Temperature 230 °C	16 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	71	71	ISO 868
Tensile Strength, Yield	32.0 MPa	4640 psi	ISO 527-2/50
Elongation at Yield	7.0 %	7.0 %	ISO 527-2/50
Tensile Modulus	1.40 GPa	203 ksi	ISO 527-2/1
Flexural Modulus	1.30 GPa	189 ksi	ISO 178
Izod Impact, Notched (ISO)	1.99 kJ/m ²	0.950 ft-lb/in ²	ISO 180/A
Charpy Impact, Notched	0.294 J/cm ² @Temperature 22.8 °C	1.40 ft-lb/in ² @Temperature 73.0 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Crystallization Temperature	237 °C	459 °F	ISO 3164
Deflection Temperature at 0.46 MPa (66 psi)	86.1 °C	187 °F	ISO 75-2/B
Deflection Temperature at 1.8 MPa (264 psi)	52.2 °C	126 °F	ISO 75-2/A
Vicat Softening Point	152 °C	306 °F	ISO 306/A50

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