

ExxonMobil™ PP1014H1

Polypropylene Homopolymer

Product Description

A homopolymer resin that meets certified requirements for use in Medical and Pharmaceutical applications.

General

Features	- Autoclave Sterilizable - Ethylene Oxide Sterilizable	- Low Extractables - Steam Sterilizable	
Uses	Labware	Medical Packaging	Medical/Healthcare Applications²
Appearance	Natural Color		
Form(s)	Pellets		
Processing Method	Injection Molding		

Physical	Typical Value (English)	Typical Value (SI)	Test Based On
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	16 g/10 min	16 g/10 min	ISO 1133
Density	0.900 g/cm ³	0.900 g/cm ³	ExxonMobil Method

Mechanical	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Stress at Yield	4770 psi	32.9 MPa	ISO 527-2/50
Tensile Strain at Yield	8.7 %	8.7 %	ISO 527-2/50
Tensile Modulus	216000 psi	1490 MPa	ISO 527-2/1
Flexural Modulus	208000 psi	1440 MPa	ISO 178

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Notched Izod Impact Strength (73°F (23°C))	1.2 ft-lb/in ²	2.6 kJ/m ²	ISO 180/1A
Charpy Notched Impact Strength (73°F (23°C))	1.3 ft-lb/in ²	2.8 kJ/m ²	ISO 179/1eA

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Melting Temperature	318 °F	159 °C	ISO 11357-3
Peak Crystallization Temperature	239 °F	115 °C	ISO 11357-3
Heat Deflection Temperature (1.80 MPa)	125 °F	51.4 °C	ISO 75-2/A
Heat Deflection Temperature (0.45 MPa)	180 °F	82.0 °C	ISO 75-2/B
Vicat Softening Temperature	307 °F	153 °C	ISO 306/A50

Hardness	Typical Value (English)	Typical Value (SI)	Test Based On
Shore Hardness (Shore D)	69	69	ISO 868

