

ExxonMobil™ PP9074MED

Polypropylene Random Copolymer

Product Description

A highly clarified random copolymer resin designed for injection molding of medical devices suitable for sterilization by high energy radiation.

General

Features	<ul style="list-style-type: none"> Controlled Rheology E-beam Sterilizable 	<ul style="list-style-type: none"> Ethylene Oxide Sterilizable High Clarity 	<ul style="list-style-type: none"> Radiation (Gamma) Resistant Radiation Sterilizable
Uses	<ul style="list-style-type: none"> Hypodermic Syringe Parts Labware 	<ul style="list-style-type: none"> Medical Packaging Medical/Healthcare Applications ² 	
Appearance	<ul style="list-style-type: none"> Natural Color 		
Form(s)	<ul style="list-style-type: none"> Pellets 		
Processing Method	<ul style="list-style-type: none"> Injection Molding 		

Physical	Typical Value (English)	Typical Value (SI)	Test Based On
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	24 g/10 min	24 g/10 min	ASTM D1238
Density	0.900 g/cm ³	0.900 g/cm ³	ExxonMobil Method

Mechanical	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield 2.0 in/min (51 mm/min)	4390 psi	30.3 MPa	ASTM D638
Elongation at Yield (2.0 in/min (51 mm/min))	13 %	13 %	ASTM D638
Flexural Modulus - 1% Secant (0.051 in/min (1.3 mm/min))	165000 psi	1140 MPa	ASTM D790A

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Notched Izod Impact (73°F (23°C))	1.2 ft-lb/in	62 J/m	ASTM D256A
Gardner Impact 73°F (23°C), 0.125 in (3.18 mm), Geometry GC	235 in-lb	26.6 J	ASTM D5420

Optical	Typical Value (English)	Typical Value (SI)	Test Based On
Haze ³	8.90 %	8.90 %	ASTM D1003

