

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

Availability ¹	<ul style="list-style-type: none"> Europe North America
Features	<ul style="list-style-type: none"> Controlled Rheology E-beam Sterilizable Ethylene Oxide Sterilizable High Clarity Radiation (Gamma) Resistant Radiation Sterilizable
Uses	<ul style="list-style-type: none"> Hypodermic Syringe Parts Labware Medical Packaging Medical/Healthcare Applications
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
Revision Date	<ul style="list-style-type: none"> 03/23/2015

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	0.9 g/cm ³	0.9 g/cm ³	ExxonMobil Method

Mechanical	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield 20 in/min (510 mm/min)	4750 psi	32.8 MPa	ASTM D638
Elongation at Yield (20 in/min (510 mm/min))	13 %	13 %	ASTM D638
Flexural Modulus - 1% Secant (0.051 in/min (1.3 mm/min))	153000 psi	1050 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	66 J/m	ASTM D256A
Gardner Impact 73°F (23°C), 0.125 in (3.18 mm), Geometry GC	209 in-lb	23.6 J	ASTM D5420

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Deflection Temperature Under Load (DTUL) at 66psi - Unannealed	167 °F	75.1 °C	ASTM D648

Optical	Typical Value (English)	Typical Value (SI)	Test Based On
Haze ²	8.6 %	8.6 %	ASTM D1003

Hardness	Typical Value (English)	Typical Value (SI)	Test Based On
Rockwell Hardness	93	93	ASTM D785

Legal Statement

This product, including the product name, shall not be used or tested in any medical application without the prior written acknowledgement of ExxonMobil Chemical as to the intended use.

Contact your ExxonMobil Chemical Customer Service Representative for potential food contact application compliance (e.g. FDA, EU, HPFB).

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Notes

Typical properties: these are not to be construed as specifications.

¹ Product may not be available in one or more countries in the identified Availability regions. Please contact your Sales Representative for complete Country Availability.

² 0.04 injection molded plaque

For additional technical, sales and order assistance: www.exxonmobilchemical.com/ContactUs

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