

Product Datasheet

ExxonMobil™ PP9074MED

Polypropylene Random Copolymer



Product Description

ExxonMobil™ PP9074MED is 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
Compliance	<ul style="list-style-type: none"> DMF 6677 ISO 10993 Part 10 ISO 10993 Part 11 ISO 10993 Part 4 ISO 10993 Part 5 USP 661.1 USP Class VI
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 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
Revision Date	<ul style="list-style-type: none"> 09/01/2022

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

Legal Statement

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

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 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. For detailed Product Stewardship information, please contact Customer Service.

³ 0.04 in injection molded plaque

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

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