Product Datasheet

Exceed™ PP9074MED

Polypropylene Random Copolymer

Product Description

Exceed™ 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]	▪ Europe	▪ North America	
Medical Regulatory	▪ DMF 6677 ▪ ISO 10993-10 ▪ ISO 10993-11	▪ ISO 10993-4 ▪ ISO 10993-5 ▪ USP 661.1	▪ USP Class VI
Features	▪ Controlled Rheology ▪ E-beam Sterilizable	▪ Ethylene Oxide Sterilizable ▪ High Clarity	▪ Radiation (Gamma) Resistant ▪ Radiation Sterilizable
Uses	▪ Hypodermic Syringe Parts ▪ Labware	▪ Medical Packaging ▪ Medical/Healthcare Applications [2]	
Appearance	▪ Natural Color		
Form(s)	▪ Pellets		
Processing Method	▪ Injection Molding		
Revision Date	▪ 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/cm³	0.900	g/cm³	ExxonMobil Method

Mechanical	Typical Value (English)		Typical Value (SI)		Test Based On
Tensile Strength at Yield					ASTM D638
2.0 in/min (51 mm/min)	4390	psi	30.3	MPa	
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					ASTM D5420
73°F (23°C), 0.125 in (3.18 mm), Geometry GC	235	in·lb	26.6	J	

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

Manufacturer website: https://www.exxonmobilchemical.com/en/products/polyethylene

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ExxonMobil

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For additional technical, sales and order assistance: Contact Us

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