

ExxonMobil™ PP9074MED

Polypropylene Random Copolymer

ExxonMobil Chemical

Message:

A random copolymer resin with high transparency is used for injection molding of medical equipment suitable for high-energy radiation disinfection.

General Information			
Features	Electron beam disinfection		
	Radiation disinfection		
	Ethylene oxide disinfection		
	Anti-gamma radiation		
	Controlled rheology		
	Definition, high		
Uses	Subcutaneous syringe parts		
	Laboratory apparatus		
	Medical/nursing supplies		
	Medical packaging		
Appearance	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	24	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness	93		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	32.8	MPa	ASTM D638
Tensile Elongation ² (Yield)	13	%	ASTM D638
Flexural Modulus - 1% Secant ³	1050	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	66	J/m	ASTM D256A
Dart Drop Impact ⁴ (23°C, 3.18 mm)	23.6	J	ASTM D5420
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	75.1	°C	ASTM D648
Optical	Nominal Value	Unit	Test Method
Haze ⁵	8.6	%	ASTM D1003
Legal statement			

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NOTE	
1.	510 mm/min
2.	510 mm/min
3.	1.3 mm/min
4.	Geometry GC
5.	0.04 injection molded plaque

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