ExxonMobil™ PP9122

Polypropylene Random Copolymer

Product Description

A random copolymer resin designed for extrusion blow molding applications and thermoforming of medical and other specialty devices and packaging. It has excellent organoleptics and very low ash metal content.

General

Features	▪ Autoclave Sterilizable ▪ Clean/High Purity	▪ Ethylene Oxide Sterilizable ▪ Low Extractables	▪ Low Odor ▪ Steam Sterilizable
Uses	▪ Caps ▪ Closures	▪ Labware ▪ Medical Packaging	▪ Medical/Healthcare Applications [2] ▪ Packaging
Appearance	▪ Natural Color		
Form(s)	▪ Pellets		
Processing Method	▪ Blow Molding ▪ Extrusion ▪ Extrusion Blow Molding	▪ Injection Blow Molding ▪ Profile Extrusion ▪ Sheet Extrusion	▪ Thermoforming

Physical	Typical Value (English)		Typical Value (SI)		Test Based On
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	2.1	g/10 min	2.1	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)	4140	psi	28.5	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)	141000	psi	972	MPa	ASTM D790A
0.51 in/min (13 mm/min)	166000	psi	1140	MPa	ASTM D790B

Impact	Typical Value (English)		Typical Value (SI)		Test Based On
Notched Izod Impact (73°F (23°C))	1.3	ft·lb/in	68	J/m	ASTM D256A

Thermal	Typical Value (English)		Typical Value (SI)		Test Based On
Deflection Temperature Under Load (DTUL) at 66psi - Unannealed	179	°F	81.6	°C	ASTM D648