

ExxonMobil™ PP1024E4

Polypropylene Homopolymer

Product Description

A medium melt flow rate homopolymer resin designed for general-purpose injection molding.

General

Availability ¹	▪ North America
Features	<ul style="list-style-type: none"> ▪ Autoclave Sterilizable ▪ Ethylene Oxide Sterilizable ▪ General Purpose ▪ High Flow ▪ High Isotactic ▪ Steam Sterilizable
Uses	<ul style="list-style-type: none"> ▪ Automotive Applications ▪ Cast Film ▪ Compounding ▪ Consumer Applications ▪ Medical/Healthcare Applications² ▪ Packaging
Appearance	▪ Natural Color
Form(s)	▪ Pellets
Processing Method	▪ Injection Molding
Revision Date	▪ 07/01/2017

Physical	Typical Value (English)	Typical Value (SI)	Test Based On
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	13 g/10 min	13 g/10 min	ASTM D1238
Density	0.900 g/cm ³	0.900 g/cm ³	ASTM D1505

Mechanical	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield			ASTM D638
2.0 in/min (51 mm/min)	4950 psi	34.1 MPa	
Elongation at Yield (2.0 in/min (51 mm/min))	9.9 %	9.9 %	ASTM D638
Flexural Modulus - 1% Secant			
0.051 in/min (1.3 mm/min)	198000 psi	1370 MPa	ASTM D790A
0.51 in/min (13 mm/min)	243000 psi	1670 MPa	ASTM D790B

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Notched Izod Impact (73°F (23°C))	0.51 ft-lb/in	27 J/m	ASTM D256A

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Deflection Temperature Under Load (DTUL) at 66psi - Unannealed	195 °F	90.6 °C	ASTM D648

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.

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