Product Datasheet

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	▪ Autoclave Sterilizable ▪ Ethylene Oxide Sterilizable	▪ General Purpose ▪ High Flow	▪ High Isotactic ▪ Steam Sterilizable
Uses	▪ Automotive Applications ▪ Cast Film	▪ Compounding ▪ Consumer Applications	▪ Medical/Healthcare Applications [2] ▪ 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/cm³	0.900	g/cm³	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.

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

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

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