

ExxonMobil™ PP1024E4

Polypropylene Homopolymer

Product Description

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

General

Features	- Autoclave Sterilizable - Ethylene Oxide Sterilizable	- General Purpose - High Flow	- High Isotactic - Steam Sterilizable
Uses	- Automotive Applications - Cast Film	- Compounding - Consumer Applications	- Medical/Healthcare Applications² - Packaging
Appearance	Natural Color		
Form(s)	Pellets		
Processing Method	Injection Molding		

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

