

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/cm ³ | 0.900 g/cm ³ | ASTM D1505 |

| Mechanical | Typical Value (English) | Typical Value (SI) | Test Based On |
|---|-------------------------|--------------------|---------------|
| Tensile Strength at Yield 2.0 in/min (51 mm/min) | 4950 psi | 34.1 MPa | ASTM D638 |
| 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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