

ExxonMobil™ PP7033N

Polypropylene Impact Copolymer

Product Description

A high crystallinity, high stiffness, high impact copolymer resin designed for injection molding applications requiring medium melt flow rate, good processing characteristics and improved cycle time.

General

| | | | |
|---------------------------|--|---|--|
| Availability ¹ | <ul style="list-style-type: none"> Africa & Middle East Asia Pacific | <ul style="list-style-type: none"> Europe Latin America | <ul style="list-style-type: none"> North America |
| Features | <ul style="list-style-type: none"> Balanced Stiffness/Toughness Fast Molding Cycle | <ul style="list-style-type: none"> High Impact Resistance High Stiffness | <ul style="list-style-type: none"> Medium Flow Nucleated |
| Uses | <ul style="list-style-type: none"> Appliances Automotive Applications | <ul style="list-style-type: none"> Child Safety Seats Consumer Applications | <ul style="list-style-type: none"> Industrial Applications Rigid Packaging |
| Appearance | <ul style="list-style-type: none"> Natural Color | | |
| Form(s) | <ul style="list-style-type: none"> Pellets | | |
| Processing Method | <ul style="list-style-type: none"> Injection Molding | | |
| Revision Date | <ul style="list-style-type: none"> 08/01/2010 | | |

| Physical | Typical Value (English) | Typical Value (SI) | Test Based On |
|---|-------------------------|-------------------------|-------------------|
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 8.0 g/10 min | 8.0 g/10 min | ASTM D1238 |
| Density | 0.900 g/cm ³ | 0.900 g/cm ³ | ExxonMobil Method |

| Mechanical | Typical Value (English) | Typical Value (SI) | Test Based On |
|---|-------------------------|--------------------|---------------|
| Tensile Strength at Yield 2.0 in/min (51 mm/min) | 3760 psi | 25.9 MPa | ASTM D638 |
| Tensile Stress at Yield | 3740 psi | 25.8 MPa | ISO 527-2/50 |
| Elongation at Yield (2.0 in/min (51 mm/min)) | 5.2 % | 5.2 % | ASTM D638 |
| Tensile Strain at Yield | 4.0 % | 4.0 % | ISO 527-2/50 |
| Tensile Modulus | 192000 psi | 1330 MPa | ISO 527-1/1 |
| Flexural Modulus - 1% Secant 0.051 in/min (1.3 mm/min) | 197000 psi | 1360 MPa | ASTM D790A |
| 0.51 in/min (13 mm/min) | 224000 psi | 1540 MPa | ASTM D790B |
| Flexural Modulus (0.079 in/min (2.0 mm/min)) | 182000 psi | 1260 MPa | ISO 178 |

| Impact | Typical Value (English) | Typical Value (SI) | Test Based On |
|---|---------------------------|-----------------------|---------------|
| Notched Izod Impact (73°F (23°C)) | 4.0 ft-lb/in | 210 J/m | ASTM D256A |
| Notched Izod Impact Strength | | | ISO 180/1A |
| -40°F (-40°C) | 1.9 ft-lb/in ² | 3.9 kJ/m ² | |
| 0°F (-18°C) | 2.3 ft-lb/in ² | 4.9 kJ/m ² | |
| 73°F (23°C) | 6.1 ft-lb/in ² | 13 kJ/m ² | |
| Charpy Notched Impact Strength | | | ISO 179/1eA |
| -22°F (-30°C) | 2.2 ft-lb/in ² | 4.7 kJ/m ² | |
| -4°F (-20°C) | 2.5 ft-lb/in ² | 5.3 kJ/m ² | |
| 32°F (0°C) | 3.5 ft-lb/in ² | 7.3 kJ/m ² | |
| 73°F (23°C) | 6.2 ft-lb/in ² | 13 kJ/m ² | |
| Gardner Impact -20°F (-29°C), 0.125 in (3.18 mm), Geometry GC | 202 in-lb | 22.8 J | ASTM D5420 |

| Thermal | Typical Value (English) | Typical Value (SI) | Test Based On |
|---|-------------------------|--------------------|---------------|
| Heat Deflection Temperature (1.80 MPa) | 126 °F | 52.0 °C | ISO 75-2/A |
| Heat Deflection Temperature (0.45 MPa) | 197 °F | 91.5 °C | ISO 75-2/Bf |
| Deflection Temperature Under Load (DTUL) at 66psi - Unannealed | 212 °F | 100 °C | ASTM D648 |

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Legal Statement

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.

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.

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

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