

ExxonMobil™ PP7032KN

Polypropylene Impact Copolymer

Product Description

A high crystallinity, excellent stiffness, high impact copolymer resin designed for injection molding, extrusion and thermoforming applications.

General

| | |
|---------------------------|--|
| Availability ¹ | <ul style="list-style-type: none"> Asia Pacific North America |
| Features | <ul style="list-style-type: none"> Antistatic Medium Flow Balanced Stiffness/Toughness Nucleated Ultra High Impact Resistance |
| Uses | <ul style="list-style-type: none"> Consumer Applications Industrial Applications Crates Pallets Tool/Tote Box Toys |
| 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"> 10/09/2019 |

| Physical | Typical Value (English) | Typical Value (SI) | Test Based On |
|---|-------------------------|-------------------------|-------------------|
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 4.0 g/10 min | 4.0 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) | 3660 psi | 25.2 MPa | ASTM D638 |
| Tensile Stress at Yield | 3570 psi | 24.6 MPa | ISO 527-2/50 |
| Elongation at Yield (2.0 in/min (51 mm/min)) | 5.3 % | 5.3 % | ASTM D638 |
| Tensile Strain at Yield | 4.7 % | 4.7 % | ISO 527-2/50 |
| Flexural Modulus - 1% Secant 0.051 in/min (1.3 mm/min) | 201000 psi | 1380 MPa | ASTM D790A |
| 0.51 in/min (13 mm/min) | 219000 psi | 1510 MPa | ASTM D790B |
| Flexural Modulus (0.079 in/min (2.0 mm/min)) | 198000 psi | 1360 MPa | ISO 178 |

| Impact | Typical Value (English) | Typical Value (SI) | Test Based On |
|---|---------------------------|-----------------------|---------------|
| Notched Izod Impact 0°F (-18°C) | 1.5 ft·lb/in | 80 J/m | ASTM D256A |
| 73°F (23°C) | No Break | No Break | |
| Notched Izod Impact Strength -40°F (-40°C) | 3.7 ft·lb/in ² | 7.7 kJ/m ² | ISO 180/1A |
| 0°F (-18°C) | 4.4 ft·lb/in ² | 9.2 kJ/m ² | |
| 73°F (23°C) | 25 ft·lb/in ² | 52 kJ/m ² | |
| Charpy Notched Impact Strength -4°F (-20°C) | 3.7 ft·lb/in ² | 7.7 kJ/m ² | ISO 179/1eA |
| 73°F (23°C) | 26 ft·lb/in ² | 55 kJ/m ² | |
| Gardner Impact -20°F (-29°C), 0.125 in (3.18 mm), Geometry GC | 231 in·lb | 26.1 J | ASTM D5420 |

| Thermal | Typical Value (English) | Typical Value (SI) | Test Based On |
|---|-------------------------|--------------------|---------------|
| Heat Deflection Temperature (1.80 MPa) | 125 °F | 51.4 °C | ISO 75-2/Af |
| Heat Deflection Temperature (0.45 MPa) | 204 °F | 95.7 °C | ISO 75-2/Bf |
| Deflection Temperature Under Load (DTUL) at 66psi - Unannealed | 223 °F | 106 °C | ASTM D648 |

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Legal Statement

Contact your ExxonMobil Chemical Customer Service Representative for potential food contact application compliance (e.g. FDA, EU, HPFB).

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.

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.

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