

Product Datasheet

# 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 <sup>1</sup>	<ul style="list-style-type: none"> <li>Asia Pacific</li> <li>North America</li> </ul>
Features	<ul style="list-style-type: none"> <li>Antistatic</li> <li>Medium Flow</li> <li>Balanced Stiffness/Toughness</li> <li>Nucleated</li> <li>Ultra High Impact Resistance</li> </ul>
Uses	<ul style="list-style-type: none"> <li>Consumer Applications</li> <li>Industrial Applications</li> <li>Crates</li> <li>Pallets</li> <li>Tool/Tote Box</li> <li>Toys</li> </ul>
Appearance	<ul style="list-style-type: none"> <li>Natural Color</li> </ul>
Form(s)	<ul style="list-style-type: none"> <li>Pellets</li> </ul>
Processing Method	<ul style="list-style-type: none"> <li>Injection Molding</li> </ul>
Revision Date	<ul style="list-style-type: none"> <li>10/09/2019</li> </ul>

### 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 <sup>3</sup>	0.900 g/cm <sup>3</sup>	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 <sup>2</sup>	7.7 kJ/m <sup>2</sup>	ISO 180/1A
0°F (-18°C)	4.4 ft-lb/in <sup>2</sup>	9.2 kJ/m <sup>2</sup>	
73°F (23°C)	25 ft-lb/in <sup>2</sup>	52 kJ/m <sup>2</sup>	
Charpy Notched Impact Strength -4°F (-20°C)	3.7 ft-lb/in <sup>2</sup>	7.7 kJ/m <sup>2</sup>	ISO 179/1eA
73°F (23°C)	26 ft-lb/in <sup>2</sup>	55 kJ/m <sup>2</sup>	
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.

<sup>1</sup> 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](http://www.exxonmobilchemical.com/ContactUs)

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