

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 Ultra High Impact Resistance Balanced Stiffness/Toughness Nucleated
Uses	<ul style="list-style-type: none"> Consumer Applications Industrial Applications Tool/Tote Box Crates Pallets 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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