

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 Balanced Stiffness/Toughness Medium Flow Nucleated Ultra High Impact Resistance
Uses	<ul style="list-style-type: none"> Consumer Applications Crates Industrial Applications 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"> 07/01/2010

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	0.9 g/cm ³	0.9 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)	3790 psi	26.1 MPa	ASTM D638
Tensile Stress at Yield	3810 psi	26.3 MPa	ISO 527-2/50
Elongation at Yield (2.0 in/min (51 mm/min))	5.5 %	5.5 %	ASTM D638
Tensile Strain at Yield	4.2 %	4.2 %	ISO 527-2/50
Tensile Modulus	200000 psi	1380 MPa	ISO 527-2/1
Flexural Modulus - 1% Secant (0.051 in/min (1.3 mm/min))	195000 psi	1340 MPa	ASTM D790A
Flexural Modulus (0.079 in/min (2.0 mm/min))	191000 psi	1320 MPa	ISO 178

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Notched Izod Impact (73°F (23°C))	No Break	No Break	ASTM D256A
Notched Izod Impact Strength			ISO 180/1A
-40°F (-40°C)	1.8 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)	20 ft·lb/in ²	42 kJ/m ²	
Charpy Notched Impact Strength			ISO 179/1eA
-22°F (-30°C)	2.1 ft·lb/in ²	4.5 kJ/m ²	
-4°F (-20°C)	2.3 ft·lb/in ²	4.8 kJ/m ²	
32°F (0°C)	3.7 ft·lb/in ²	7.7 kJ/m ²	
73°F (23°C)	6.7 ft·lb/in ²	14 kJ/m ²	
Gardner Impact			ASTM D5420
-20°F (-29°C), 0.125 in (3.18 mm), Geometry GC	262 in·lb	29.6 J	

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Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Heat Deflection Temperature (1.80 MPa)	127 °F	52.5 °C	ISO 75-2/A
Heat Deflection Temperature (0.45 MPa)	203 °F	95.0 °C	ISO 75-2/Bf
Deflection Temperature Under Load (DTUL) at 66psi - Unannealed	207 °F	97.2 °C	ASTM D648

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.

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.

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