ExxonMobil

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]	▪ Asia Pacific	▪ North America	
Features	▪ Antistatic ▪ Balanced Stiffness/Toughness	▪ Medium Flow ▪ Nucleated	▪ Ultra High Impact Resistance
Uses	▪ Consumer Applications ▪ Crates	▪ Industrial Applications ▪ Pallets	▪ Tool/Tote Box ▪ Toys
Appearance	▪ Natural Color		
Form(s)	▪ Pellets		
Processing Method	▪ Injection Molding		
Revision Date	▪ 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	0.900	g/cm³	0.900	g/cm³	ExxonMobil Method

Mechanical	Typical Value (English)		Typical Value (SI)		Test Based On
Tensile Strength at Yield					ASTM D638
2.0 in/min (51 mm/min)	3790	psi	26.1	MPa	
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/in²	3.9	kJ/m²	
0°F (-18°C)	2.3	ft·lb/in²	4.9	kJ/m²	
73°F (23°C)	20	ft·lb/in²	42	kJ/m²	
Charpy Notched Impact Strength					ISO 179/1eA
-22°F (-30°C)	2.1	ft·lb/in²	4.5	kJ/m²	
-4°F (-20°C)	2.3	ft·lb/in²	4.8	kJ/m²	
32°F (0°C)	3.7	ft·lb/in²	7.7	kJ/m²	
73°F (23°C)	6.7	ft·lb/in²	14	kJ/m²	
Gardner Impact					ASTM D5420
-20°F (-29°C), 0.125 in (3.18 mm), Geometry GC	262	in·lb	29.6	J	

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

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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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