Manufacturer website: https://www.exxonmobilchemical.com/en/products/polyethylene

Product Datasheet

ExxonMobil Signature Polymers

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]	▪ Africa & Middle East ▪ Asia Pacific	▪ Europe ▪ Latin America	▪ 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	▪ 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/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)	3660	psi	25.2	MPa	
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					ASTM D256A
0°F (-18°C)	1.5	ft·lb/in	80	J/m	
73°F (23°C)	No Break		No Break		
Notched Izod Impact Strength					ISO 180/1A
-40°F (-40°C)	3.7	ft·lb/in²	7.7	kJ/m²	
0°F (-18°C)	4.4	ft·lb/in²	9.2	kJ/m²	
73°F (23°C)	25	ft·lb/in²	52	kJ/m²	
Charpy Notched Impact Strength					ISO 179/1eA
-4°F (-20°C)	3.7	ft·lb/in²	7.7	kJ/m²	
73°F (23°C)	26	ft·lb/in²	55	kJ/m²	
Gardner Impact					ASTM D5420
-20°F (-29°C), 0.125 in (3.18 mm), Geometry GC	231	in·lb	26.1	J	

Thermal	Typical Value (English)		Typical Value (SI)		Test Based On
Heat Deflection Temperature (1.80 MPa)					ExxonMobil Method
Flatwise	125	°F	51.4	°C	
Heat Deflection Temperature (0.45 MPa)					ExxonMobil Method
Flatwise	204	°F	95.7	°C	
Deflection Temperature Under Load (DTUL) at 66psi - Unannealed	223	°F	106	°C	ExxonMobil Method

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ExxonMobil™ PP7032KN
Polypropylene Impact Copolymer

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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