ExxonMobil Signature Polymers

ExxonMobil™ PP7033N

Polypropylene Impact Copolymer

Product Description

A high crystallinity, high stiffness, high impact copolymer resin designed for injection molding applications requiring medium melt flow rate, good processing characteristics and improved cycle time.

General

Availability [1]	▪ Africa & Middle East ▪ Asia Pacific	▪ Europe ▪ Latin America	▪ North America
Features	▪ Balanced Stiffness/Toughness ▪ Fast Molding Cycle	▪ High Impact Resistance ▪ High Stiffness	▪ Medium Flow ▪ Nucleated
Uses	▪ Appliances ▪ Automotive Applications	▪ Child Safety Seats ▪ Consumer Applications	▪ Industrial Applications ▪ Rigid Packaging
Appearance	▪ Natural Color		
Form(s)	▪ Pellets		
Processing Method	▪ Injection Molding		
Revision Date	▪ 08/01/2010		

Physical	Typical Value (English)		Typical Value (SI)		Test Based On
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	8.0	g/10 min	8.0	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)	3760	psi	25.9	MPa	
Tensile Stress at Yield	3740	psi	25.8	MPa	ISO 527-2/50
Elongation at Yield (2.0 in/min (51 mm/min))	5.2	%	5.2	%	ASTM D638
Tensile Strain at Yield	4.0	%	4.0	%	ISO 527-2/50
Tensile Modulus	192000	psi	1330	MPa	ISO 527-1/1
Flexural Modulus - 1% Secant					
0.051 in/min (1.3 mm/min)	197000	psi	1360	MPa	ASTM D790A
0.51 in/min (13 mm/min)	224000	psi	1540	MPa	ASTM D790B
Flexural Modulus (0.079 in/min (2.0 mm/min))	182000	psi	1260	MPa	ISO 178

Impact	Typical Value (English)		Typical Value (SI)		Test Based On
Notched Izod Impact (73°F (23°C))	4.0	ft·lb/in	210	J/m	ASTM D256A
Notched Izod Impact Strength					ISO 180/1A
-40°F (-40°C)	1.9	ft·lb/in²	3.9	kJ/m²	
0°F (-18°C)	2.3	ft·lb/in²	4.9	kJ/m²	
73°F (23°C)	6.1	ft·lb/in²	13	kJ/m²	
Charpy Notched Impact Strength					ISO 179/1eA
-22°F (-30°C)	2.2	ft·lb/in²	4.7	kJ/m²	
-4°F (-20°C)	2.5	ft·lb/in²	5.3	kJ/m²	
32°F (0°C)	3.5	ft·lb/in²	7.3	kJ/m²	
73°F (23°C)	6.2	ft·lb/in²	13	kJ/m²	
Gardner Impact					ASTM D5420
-20°F (-29°C), 0.125 in (3.18 mm), Geometry GC	202	in·lb	22.8	J	

Thermal	Typical Value (English)		Typical Value (SI)		Test Based On
Heat Deflection Temperature (1.80 MPa)	126	°F	52.0	°C	ISO 75-2/A
Heat Deflection Temperature (0.45 MPa)	197	°F	91.5	°C	ISO 75-2/Bf
Deflection Temperature Under Load (DTUL) at 66psi - Unannealed	212	°F	100	°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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