

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	<ul style="list-style-type: none"> Asia Pacific North America
Features	<ul style="list-style-type: none"> Balanced Stiffness/Toughness High Impact Resistance Medium Flow Fast Molding Cycle High Stiffness Nucleated
Uses	<ul style="list-style-type: none"> Appliances Child Safety Seats Industrial Applications Automotive Applications Consumer Applications Rigid Packaging
Automotive Specifications	<ul style="list-style-type: none"> HYUNDAI MS213-26 Type 1 (Approval specific to USA sourced material)
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"> 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	0.9 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)	3760 psi	25.9 MPa	ASTM D638
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 527-2/1
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/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)	6.1 ft-lb/in ²	13 kJ/m ²	
Charpy Notched Impact Strength			ISO 179/1eA
-22°F (-30°C)	2.2 ft-lb/in ²	4.7 kJ/m ²	
-4°F (-20°C)	2.5 ft-lb/in ²	5.3 kJ/m ²	
32°F (0°C)	3.5 ft-lb/in ²	7.3 kJ/m ²	
73°F (23°C)	6.2 ft-lb/in ²	13 kJ/m ²	
Gardner Impact -20°F (-29°C), 0.125 in (3.18 mm), Geometry GC	202 in-lb	22.8 J	ASTM D5420

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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

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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