

ExxonMobil™ PP7033N

Polypropylene Impact Copolymer

ExxonMobil Chemical

Message:

A copolymer resin with high crystallinity, high rigidity and high impact resistance is used in injection molding applications requiring medium melt flow rate, good processability and improved cycle time.

General Information			
UL YellowCard	E225564-229788	E31790-230754	
Features	Nucleated		
	Rigidity, high		
	Equilibrium rigidity/toughness		
	Impact resistance, high		
	Fast molding cycle		
	Medium liquidity		
Uses	Child Safety Seats		
	Electrical appliances		
	Industrial application		
	Application in Automobile Field		
	Consumer goods application field		
	Hard packaging		
Appearance	Natural color		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	8.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1330	MPa	ISO 527-2/1
Tensile Strength			
Yield ¹	25.9	MPa	ASTM D638
Yield	25.8	MPa	ISO 527-2/50
Tensile Elongation			
Yield ²	5.2	%	ASTM D638
Yield	4.0	%	ISO 527-2/50
Flexural Modulus			
1% secant ³	1360	MPa	ASTM D790A
1% secant ⁴	1540	MPa	ASTM D790B
-- ⁵	1260	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	4.7	kJ/m ²	ISO 179/1eA
-20°C	5.3	kJ/m ²	ISO 179/1eA
0°C	7.3	kJ/m ²	ISO 179/1eA
23°C	13	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C	210	J/m	ASTM D256A
-40°C	3.9	kJ/m ²	ISO 180/1A
-18°C	4.9	kJ/m ²	ISO 180/1A
23°C	13	kJ/m ²	ISO 180/1A
Dart Drop Impact ⁶ (-29°C, 3.18 mm)	22.8	J	ASTM D5420
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, not annealed	100	°C	ASTM D648
0.45 MPa, not annealed	91.5	°C	ISO 75-2/Bf
1.8 MPa, not annealed	52.0	°C	ISO 75-2/A
Legal statement			
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NOTE			
1.	51 mm/min		
2.	51 mm/min		
3.	1.3 mm/min		
4.	13 mm/min		
5.	2.0 mm/min		
6.	Geometry GC		

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