

ExxonMobil™ PP7032KN

Polypropylene Impact Copolymer

ExxonMobil Chemical

Message:

A copolymer resin with high crystallinity, excellent rigidity and high impact resistance is used in injection molding, extrusion molding and thermoforming applications.

General Information			
UL YellowCard	E225564-100817879	E31790-254337	
Features	Ultra-high impact resistance		
	Nucleated		
	Equilibrium rigidity/toughness		
	Antistatic property		
	Medium liquidity		
Uses	Pallets		
	Tools/Parts Box		
	Industrial application		
	Toys		
	Consumer goods application field		
	Loading box		
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)	4.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1380	MPa	ISO 527-2/1
Tensile Strength			
Yield ¹	26.1	MPa	ASTM D638
Yield	26.3	MPa	ISO 527-2/50
Tensile Elongation			
Yield ²	5.5	%	ASTM D638
Yield	4.2	%	ISO 527-2/50
Flexural Modulus			
1% secant ³	1340	MPa	ASTM D790A
-- ⁴	1320	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA

-30°C	4.5	kJ/m ²	ISO 179/1eA
-20°C	4.8	kJ/m ²	ISO 179/1eA
0°C	7.7	kJ/m ²	ISO 179/1eA
23°C	14	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C	No Break		ASTM D256A
-40°C	3.9	kJ/m ²	ISO 180/1A
-18°C	4.9	kJ/m ²	ISO 180/1A
23°C	42	kJ/m ²	ISO 180/1A
Dart Drop Impact ⁵ (-29°C, 3.18 mm)	29.6	J	ASTM D5420
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, not annealed	97.2	°C	ASTM D648
0.45 MPa, not annealed	95.0	°C	ISO 75-2/Bf
1.8 MPa, not annealed	52.5	°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. 2.0 mm/min
5. Geometry GC

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