

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

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		

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/cm ³	0.900 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)	530000 psi	3660 MPa	ASTM D638
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 0°F (-18°C)	1.5 ft-lb/in	80 J/m	ASTM D256A
73°F (23°C)	No Break	No Break	
Notched Izod Impact Strength -40°F (-40°C)	3.7 ft-lb/in ²	7.7 kJ/m ²	ISO 180/1A
0°F (-18°C)	4.4 ft-lb/in ²	9.2 kJ/m ²	
73°F (23°C)	25 ft-lb/in ²	52 kJ/m ²	
Charpy Notched Impact Strength -4°F (-20°C)	3.7 ft-lb/in ²	7.7 kJ/m ²	ISO 179/1eA
73°F (23°C)	26 ft-lb/in ²	55 kJ/m ²	
Gardner Impact -20°F (-29°C), 0.125 in (3.18 mm), Geometry GC	231 in-lb	26.1 J	ASTM D5420

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Heat Deflection Temperature (1.80 MPa)	125 °F	51.4 °C	ISO 75-2/Af
Heat Deflection Temperature (0.45 MPa)	204 °F	95.7 °C	ISO 75-2/Bf
Deflection Temperature Under Load (DTUL) at 66psi - Unannealed	223 °F	106 °C	ASTM D648
DTUL @ 66psi - Annealed	244 °F	118 °C	ASTM D648

