

ExxonMobil™ PP7684KN

Polypropylene Impact Copolymer

ExxonMobil Chemical

Message:

A copolymer resin with high crystallinity and high impact strength, with medium melt flow rate and excellent processing performance. It is suitable for injection molding of small and medium-sized household appliance parts.

General Information			
UL YellowCard	E225564-100817880	E31790-230760	
Features	Nucleated		
	Equilibrium rigidity/toughness		
	Antistatic property		
	Fast molding cycle		
	Medium impact resistance		
Uses	Packaging		
	Electrical appliances		
	Tools/Parts Box		
	Industrial application		
	Consumer goods application field		
	Loading box		
Appearance	Natural color		
Forms	Particle		
Processing Method	Composite		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	20	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1320	MPa	ISO 527-2/1
Tensile Strength			
Yield ¹	24.4	MPa	ASTM D638
Yield	24.3	MPa	ISO 527-2/50
Tensile Elongation			
Yield ²	4.4	%	ASTM D638
Yield	3.4	%	ISO 527-2/50
Flexural Modulus			
1% secant ³	1290	MPa	ASTM D790A
1% secant ⁴	1480	MPa	ASTM D790B

-- ⁵	1250	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	3.9	kJ/m ²	ISO 179/1eA
-20°C	4.8	kJ/m ²	ISO 179/1eA
0°C	6.6	kJ/m ²	ISO 179/1eA
23°C	10	kJ/m ²	ISO 179/1eA
Notched Izod Impact			
23°C	150	J/m	ASTM D256A
-40°C	4.0	kJ/m ²	ISO 180/1A
-18°C	4.6	kJ/m ²	ISO 180/1A
23°C	8.4	kJ/m ²	ISO 180/1A
Dart Drop Impact ⁶ (-29°C, 3.18 mm)	22.7	J	ASTM D5420
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, not annealed	105	°C	ASTM D648
0.45 MPa, not annealed	93.0	°C	ISO 75-2/Bf
1.8 MPa, not annealed	51.5	°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.	13 mm/min		
5.	2.0 mm/min		
6.	Geometry GC		

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