ExxonMobil™ PP7722KN

Polypropylene Impact Copolymer

Product Description

ExxonMobil™ PP7722KN is a low melt flow rate impact copolymer designed for ultra-high impact resistance and high melt strength. This resin offers good processability in combination with excellent mechanical properties. The target applications include corrugated sheet/boxes, thermoforming and rigid containers.

General

Availability [1]	▪ Africa & Middle East ▪ Europe	▪ Latin America ▪ North America	
Features	▪ Antistatic ▪ Balanced Stiffness/Toughness	▪ Good Processability ▪ Medium Flow	▪ Nucleated ▪ Ultra High Impact Resistance
Uses	▪ Consumer Applications ▪ Corrugated Board ▪ Crates	▪ Industrial Applications ▪ Pallets ▪ Rigid Packaging	▪ Thermoformed Rigid Containers ▪ Tool/Tote Box ▪ Toys
Appearance	▪ Natural Color		
Form(s)	▪ Pellets		
Processing Method	▪ Extrusion	▪ Injection Molding	▪ Thermoforming
Revision Date	▪ 01/17/2024		

Physical	Typical Value (English)		Typical Value (SI)		Test Based On
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	1.8	g/10 min	1.8	g/10 min	ASTM D1238
Density	0.900	g/cm³	0.900	g/cm³	ExxonMobil Method

Mechanical	Typical Value (English)		Typical Value (SI)		Test Based On
Tensile Strength at Yield					ASTM D638
2.0 in/min (50 mm/min)	3850	psi	26.5	MPa	
Elongation at Yield (2.0 in/min (50 mm/min))	6.0	%	6.0	%	ASTM D638
Tensile Strain at Yield	5.8	%	5.8	%	ISO 527-2
Flexural Modulus - 1% Secant (0.051 in/min (1.3 mm/min))	193000	psi	1330	MPa	ASTM D790A
Flexural Modulus - 1% Secant	216000	psi	1490	MPa	ISO 178

Impact	Typical Value (English)		Typical Value (SI)		Test Based On
Notched Izod Impact					ASTM D256A
0°F (-18°C)	1.5	ft·lb/in	80	J/m	
32°F (0°C)	2.8	ft·lb/in	150	J/m	
73°F (23°C)	No Break		No Break		
Notched Izod Impact Strength					ISO 180
0°F (-18°C)	3.3	ft·lb/in²	7.0	kJ/m²	
32°F (0°C)	9.3	ft·lb/in²	20	kJ/m²	
73°F (23°C)	30	ft·lb/in²	63	kJ/m²	
Charpy Notched Impact Strength					ISO 179
-4°F (-20°C)	3.1	ft·lb/in²	6.6	kJ/m²	
32°F (0°C)	5.0	ft·lb/in²	11	kJ/m²	
73°F (23°C)	36	ft·lb/in²	76	kJ/m²	

Thermal	Typical Value (English)		Typical Value (SI)		Test Based On
Heat Deflection Temperature (1.80 MPa)					ExxonMobil Method
Flatwise	131	°F	54.8	°C	
Heat Deflection Temperature (0.45 MPa)					ExxonMobil Method
Flatwise	227	°F	109	°C	

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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. For detailed Product Stewardship information, please contact Customer Service.

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.

For additional technical, sales and order assistance: www.exxonmobilchemical.com/ContactUs

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