

ExxonMobil™ PP7143KNE1

Polypropylene Impact Copolymer

Product Description

A high impact copolymer resin designed for consumer and industrial applications.

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, wandonicy	Africa & Middle East Asia Pacific		EuropeNorth America		
	Good Colorability Good Dimensional S	tability	Good Mold ReleaseGood Thermal Stability		
Uses •	Containers		 Industrial Applications 	 Pallets 	
Appearance •	Natural Color				
Form(s)	Pellets				
Processing Method •	Injection Molding				
	09/27/2019				
Physical	Typical Value	(English)	Typical Value	(SI)	Test Based Or
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	* * * * * * * * * * * * * * * * * * * *	g/10 min		g/10 min	ASTM D1238
Density		g/cm³		g/cm³	ExxonMobil Method
Mechanical	Typical Value	(English)	Typical Value	(SI)	Test Based Or
Tensile Strength at Yield					ASTM D638
2.0 in/min (51 mm/min)	3070	psi	21.1	MPa	
Tensile Stress at Yield	3020	psi	20.8	MPa	ISO 527-2/50
Elongation at Yield (2.0 in/min (51 mm/min))	4.8	%	4.8	%	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)	164000	•	1130	MPa	ASTM D790A
0.51 in/min (13 mm/min)	188000		1300	MPa	ASTM D790B
Flexural Modulus (0.079 in/min (2.0 mm/min))	166000	psi	1140	MPa	ISO 178
mpact	Typical Value	(English)	Typical Value	(SI)	Test Based Or
Notched Izod Impact	, i		,		ASTM D256A
0°F (-18°C)	1.7	ft·lb/in	91	J/m	
73°F (23°C)	No Break		No Break		
Notched Izod Impact Strength					ISO 180/1A
-40°F (-40°C)	3.8	ft·lb/in²	7.9	kJ/m²	
73°F (23°C)	24	ft·lb/in²	51	kJ/m²	
Charpy Notched Impact Strength					ISO 179/1eA
-4°F (-20°C)		ft·lb/in²		kJ/m²	
73°F (23°C)	26	ft·lb/in²	56	kJ/m²	
Gardner Impact -20°F (-29°C), 0.125 in (3.18 mm), Geometry GC	> 320	in·lb	> 36.2	J	ASTM D5420
Thermal	Typical Value	(English)	Typical Value	(SI)	Test Based Or
Heat Deflection Temperature (1.80 MPa) Flatwise	122		49.9		ExxonMobil Method
Heat Deflection Temperature (0.45 MPa) Flatwise	188		86.4		ExxonMobil Method
Deflection Temperature Under Load (DTUL) at 66psi - Unannealed	203		94.9		ExxonMobil Method
DTUL (66 psi) - Annealed	236	°F	113	°C	ExxonMobil Method

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Hardness	Typical Value (English)	Typical Value (SI)	Test Based On
Rockwell Hardness	80	80	ASTM D785

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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