

ExxonMobil™ PP7143KNE1

Polypropylene Impact Copolymer

Product Description

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

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7 Wallability	Africa & Middle East Asia Pacific		EuropeNorth America		
	Good Colorability Good Dimensional S	tability	Good Mold ReleaseGood Thermal Stability	Medium FlowNucleated	
Uses •	Containers		 Industrial Applications 	 Pallets 	
Appearance •	Natural Color				
Form(s)	Pellets				
Processing Method •	Injection Molding				
Revision Date •	09/27/2019				
Physical	Typical Value		Typical Value		Test Based On
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)		g/10 min		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 (51 mm/min)	3070	psi	21.1	MPa	
Tensile Stress at Yield	3020	•		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	4 / 4000		****		
0.051 in/min (1.3 mm/min)	164000		1130		ASTM D790A
0.51 in/min (13 mm/min) Flexural Modulus	188000 166000		1300 1140		ASTM D790B ISO 178
(0.079 in/min (2.0 mm/min))			1140		130 170
mpact	Typical Value	(English)	Typical Value	(SI)	Test Based On
Notched Izod Impact					ASTM D256A
0°F (-18°C)		ft·lb/in		J/m	
73°F (23°C)	No Break		No Break		
Notched Izod Impact Strength		6 11 / 2			ISO 180/1A
-40°F (-40°C)		ft·lb/in²		kJ/m ²	
73°F (23°C)	24	ft·lb/in²	51	kJ/m ²	ISO 179/1eA
Charpy Notched Impact Strength -4°F (-20°C)	17	ft·lb/in²	0.0	kJ/m²	130 179/16A
73°F (23°C)		ft·lb/in ²		kJ/m ²	
Gardner Impact			30	~	ASTM D5420
-20°F (-29°C), 0.125 in (3.18 mm), Geometry GC	> 320	in·lb	> 36.2	J	
Thermal	Typical Value	(English)	Typical Value	(SI)	Test Based On
Heat Deflection Temperature (1.80 MPa) Flatwise	122	°F	49.9	°C	ExxonMobil Method
Heat Deflection Temperature (0.45 MPa) Flatwise	188	°F	86.4	°C	ExxonMobil Method
Deflection Temperature Under Load (DTUL) at 66psi - Unannealed	203	°F	94.9	°C	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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