

Product Datasheet



ExxonMobil™ PP7555KNE2

Polypropylene Impact Copolymer

Product Description

A high melt flow rate medium impact copolymer resin designed for thin wall injection molding requiring fast cycle time and low odor.

General

Availability ¹	- Asia Pacific - Europe
Features	- Good Mold Release - High Impact Resistance - Low Odor - High Flow - High Stiffness - Nucleated
Uses	- Appliance Components - Containers - Toys - Consumer Applications - Rigid Food Packaging
Appearance	Natural Color
Form(s)	Pellets
Processing Method	Injection Molding
Revision Date	07/01/2010

Physical	Typical Value (English)	Typical Value (SI)	Test Based On
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	50 g/10 min	50 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)	3680 psi	25.4 MPa	ASTM D638
Tensile Stress at Yield	3580 psi	24.7 MPa	ISO 527-2/50
Elongation at Yield (2.0 in/min (51 mm/min))	4.6 %	4.6 %	ASTM D638
Tensile Strain at Yield	3.7 %	3.7 %	ISO 527-2/50
Tensile Modulus	199000 psi	1370 MPa	ISO 527-1/1
Flexural Modulus - 1% Secant 0.051 in/min (1.3 mm/min)	194000 psi	1340 MPa	ASTM D790A
0.51 in/min (13 mm/min)	221000 psi	1520 MPa	ASTM D790B
Flexural Modulus (0.079 in/min (2.0 mm/min))	184000 psi	1270 MPa	ISO 178

Impact	Typical Value (English)	Typical Value (SI)	Test Based On
Notched Izod Impact (73°F (23°C))	1.8 ft-lb/in	94 J/m	ASTM D256A
Notched Izod Impact Strength			ISO 180/1A
-40°F (-40°C)	1.9 ft-lb/in ²	3.9 kJ/m ²	
0°F (-18°C)	2.0 ft-lb/in ²	4.2 kJ/m ²	
73°F (23°C)	3.5 ft-lb/in ²	7.4 kJ/m ²	
Charpy Notched Impact Strength			ISO 179/1eA
-22°F (-30°C)	2.0 ft-lb/in ²	4.2 kJ/m ²	
-4°F (-20°C)	2.2 ft-lb/in ²	4.6 kJ/m ²	
32°F (0°C)	2.6 ft-lb/in ²	5.4 kJ/m ²	
73°F (23°C)	4.0 ft-lb/in ²	8.5 kJ/m ²	
Gardner Impact			ASTM D5420
-20°F (-29°C), 0.125 in (3.18 mm), Geometry GC	147 in-lb	16.6 J	

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Heat Deflection Temperature (1.80 MPa)	123 °F	50.7 °C	ISO 75-2/A
Heat Deflection Temperature (0.45 MPa)	199 °F	93.0 °C	ISO 75-2/Bf
Deflection Temperature Under Load (DTUL) at 66psi - Unannealed	221 °F	105 °C	ASTM D648
DTUL (66 psi) - Annealed	246 °F	119 °C	ASTM D648

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Hardness	Typical Value (English)	Typical Value (SI)	Test Based On
Rockwell Hardness	89	89	ASTM D785

Legal Statement

Contact your ExxonMobil Chemical Customer Service Representative for potential food contact application compliance (e.g. FDA, EU, HPFB).

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.

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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