

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

Features	- Good Mold Release - High Flow	- High Impact Resistance - High Stiffness	- Low to No Odor - Nucleated
Uses	- Appliance Components - Consumer Applications	- Containers - Rigid Food Packaging	Toys
Appearance	Natural Color		
Form(s)	Pellets		
Processing Method	Injection Molding		

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	0.9 g/cm ³	0.9 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 527-2/1
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	



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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 @ 66psi - Annealed	246 °F	119 °C	ASTM D648

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

