ExxonMobil Signature Polymers

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 Flow	▪ High Impact Resistance ▪ High Stiffness	▪ Low Odor ▪ Nucleated
Uses	▪ Appliance Components ▪ Consumer Applications	▪ Containers ▪ Rigid Food Packaging	▪ Toys
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/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)	3680	psi	25.4	MPa	
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/in²	3.9	kJ/m²	
0°F (-18°C)	2.0	ft·lb/in²	4.2	kJ/m²	
73°F (23°C)	3.5	ft·lb/in²	7.4	kJ/m²	
Charpy Notched Impact Strength					ISO 179/1eA
-22°F (-30°C)	2.0	ft·lb/in²	4.2	kJ/m²	
-4°F (-20°C)	2.2	ft·lb/in²	4.6	kJ/m²	
32°F (0°C)	2.6	ft·lb/in²	5.4	kJ/m²	
73°F (23°C)	4.0	ft·lb/in²	8.5	kJ/m²	
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: Contact Us

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