ExxonMobil Signature Polymers

Exceed™ PP7755KNE1

Polypropylene Impact Copolymer

Product Description

A high flow rate medium impact copolymer resin designed for thin wall injection molding requiring fast cycle time and other applications requiring high flowability.

General

Availability [1]	▪ Africa & Middle East	▪ Asia Pacific	▪ Europe
Features	▪ Good Mold Release ▪ High Flow	▪ High Impact Resistance ▪ High Stiffness	▪ Low Odor ▪ Nucleated
Uses	▪ Appliance Components ▪ Automotive Applications	▪ Consumer Applications ▪ Containers	▪ Rigid Food Packaging ▪ Toys
Appearance	▪ Natural Color		
Form(s)	▪ Pellets		
Processing Method	▪ Compounding	▪ Injection Molding	
Revision Date	▪ 07/02/2025		

Physical	Typical Value (English)		Typical Value (SI)		Test Based On
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	75	g/10 min	75	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)	3550	psi	24.5	MPa	
Tensile Stress at Yield (73°F (23°C))	3470	psi	23.9	MPa	ISO 527-2/50
Elongation at Yield (2.0 in/min (51 mm/min))	4.5	%	4.5	%	ASTM D638
Tensile Strain at Yield	4.3	%	4.3	%	ISO 527-2/50
Flexural Modulus - 1% Secant					
0.051 in/min (1.3 mm/min)	191000	psi	1320	MPa	ASTM D790A
0.51 in/min (13 mm/min)	218000	psi	1500	MPa	ASTM D790B
Flexural Modulus (0.079 in/min (2.0 mm/min))	186000	psi	1280	MPa	ISO 178

Impact	Typical Value (English)		Typical Value (SI)		Test Based On
Notched Izod Impact					ASTM D256A
0°F (-18°C)	0.90	ft·lb/in	48	J/m	
73°F (23°C)	1.5	ft·lb/in	80	J/m	
Notched Izod Impact Strength					ISO 180/1A
-40°F (-40°C)	1.6	ft·lb/in²	3.4	kJ/m²	
-4°F (-20°C)	2.2	ft·lb/in²	4.6	kJ/m²	
32°F (0°C)	2.5	ft·lb/in²	5.2	kJ/m²	
73°F (23°C)	3.4	ft·lb/in²	7.2	kJ/m²	
Charpy Notched Impact Strength					ISO 179/1eA
-4°F (-20°C)	1.6	ft·lb/in²	3.4	kJ/m²	
32°F (0°C)	2.4	ft·lb/in²	5.0	kJ/m²	
73°F (23°C)	3.8	ft·lb/in²	7.9	kJ/m²	
Gardner Impact					ASTM D5420
-20°F (-29°C), 0.125 in (3.18 mm), Geometry GC	150	in·lb	17.0	J	

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Thermal	Typical Value (English)		Typical Value (SI)		Test Based On
Heat Deflection Temperature (1.80 MPa)	124	°F	51.0	°C	ExxonMobil Method
Heat Deflection Temperature (0.45 MPa)	208	°F	98.0	°C	ExxonMobil Method
Deflection Temperature Under Load (DTUL) at 66psi - Unannealed	232	°F	111	°C	ExxonMobil Method
DTUL (66 psi) - Annealed	250	°F	121	°C	ExxonMobil Method

Hardness	Typical Value (English)	Typical Value (SI)	Test Based On
Rockwell Hardness	92	92	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: Contact Us

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