ExxonMobil Signature Polymers

ExxonMobil™ PP7032E2

Polypropylene Impact Copolymer

Product Description

A high crystallinity, high impact copolymer resin designed for injection molding, extrusion and thermoforming applications.

General

Availability [1]	▪ North America		
Features	▪ Good Colorability ▪ Good Dimensional Stability	▪ Good Thermal Stability ▪ Medium Flow	
Uses	▪ Automotive Applications ▪ Caps	▪ Closures ▪ Compounding	▪ Packaging ▪ Rigid Packaging
Appearance	▪ Natural Color		
Form(s)	▪ Pellets		
Processing Method	▪ Injection Molding		
Revision Date	▪ 12/01/2017		

Physical	Typical Value (English)		Typical Value (SI)		Test Based On
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	4.0	g/10 min	4.0	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)	3480	psi	24.0	MPa	
Tensile Stress at Yield	3390	psi	23.4	MPa	ISO 527-2/50
Elongation at Yield (2.0 in/min (51 mm/min))	6.4	%	6.4	%	ASTM D638
Tensile Strain at Yield	6.2	%	6.2	%	ISO 527-2/50
Flexural Modulus - 1% Secant					
0.051 in/min (1.3 mm/min)	164000	psi	1130	MPa	ASTM D790A
0.51 in/min (13 mm/min)	188000	psi	1300	MPa	ASTM D790B
Flexural Modulus (0.079 in/min (2.0 mm/min))	165000	psi	1140	MPa	ISO 178

Impact	Typical Value (English)		Typical Value (SI)		Test Based On
Notched Izod Impact (0°F (-18°C))	1.3	ft·lb/in	69	J/m	ASTM D256A
Notched Izod Impact Strength					ISO 180/1A
-40°F (-40°C)	3.0	ft·lb/in²	6.3	kJ/m²	
-4°F (-20°C)	3.4	ft·lb/in²	7.2	kJ/m²	
73°F (23°C)	21	ft·lb/in²	45	kJ/m²	
Charpy Notched Impact Strength					ISO 179/1eA
-22°F (-30°C)	3.0	ft·lb/in²	6.4	kJ/m²	
-4°F (-20°C)	3.2	ft·lb/in²	6.8	kJ/m²	
32°F (0°C)	4.5	ft·lb/in²	9.5	kJ/m²	
73°F (23°C)	23	ft·lb/in²	48	kJ/m²	
Gardner Impact					ASTM D5420
-20°F (-29°C), 0.125 in (3.18 mm), Geometry GC	219	in·lb	24.7	J	

Thermal	Typical Value (English)		Typical Value (SI)		Test Based On
Heat Deflection Temperature (1.80 MPa)	120	°F	48.7	°C	ISO 75-2/Af
Heat Deflection Temperature (0.45 MPa)	171	°F	77.4	°C	ISO 75-2/Bf
Deflection Temperature Under Load (DTUL) at 66psi - Unannealed	180	°F	82.1	°C	ASTM D648
DTUL (66 psi) - Annealed	230	°F	110	°C	ASTM D648

Hardness	Typical Value (English)		Typical Value (SI)		Test Based On
Rockwell Hardness	87		87		ASTM D785

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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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