Product Datasheet

ExxonMobil Signature Polymers

ExxonMobil™ PP7033E2

Polypropylene Impact Copolymer

Product Description

A high crystallinity, high impact copolymer resin designed for injection molding applications requiring medium melt flow rate.

General

Availability [1]	▪ North America		
Features	▪ Good Colorability ▪ Good Dimensional Stability	▪ Medium Flow ▪ Medium Impact Resistance	
Uses	▪ Automotive Applications ▪ Automotive Interior Parts	▪ Automotive Interior Trim ▪ Child Safety Seats	▪ Consumer Applications ▪ Toys
Appearance	▪ Natural Color		
Form(s)	▪ Pellets		
Processing Method	▪ Injection Molding		
Revision Date	▪ 06/12/2020		

Physical	Typical Value (English)		Typical Value (SI)		Test Based On
Density	0.900	g/cm³	0.900	g/cm³	ExxonMobil Method
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	8.0	g/10 min	8.0	g/10 min	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)	3420	psi	23.6	MPa	
Tensile Stress at Yield	3340	psi	23.0	MPa	ISO 527-2/50
Elongation at Yield (2.0 in/min (51 mm/min))	6.2	%	6.2	%	ASTM D638
Tensile Strain at Yield	6.3	%	6.3	%	ISO 527-2/50
Flexural Modulus - 1% Secant					
0.051 in/min (1.3 mm/min)	153000	psi	1060	MPa	ASTM D790A
0.51 in/min (13 mm/min)	176000	psi	1210	MPa	ASTM D790B
Flexural Modulus (0.079 in/min (2.0 mm/min))	160000	psi	1100	MPa	ISO 178

Impact	Typical Value (English)		Typical Value (SI)		Test Based On
Notched Izod Impact					ASTM D256A
0°F (-18°C)	1.2	ft·lb/in	64	J/m	
73°F (23°C)	3.1	ft·lb/in	170	J/m	
Notched Izod Impact Strength					ISO 180/1A
-40°F (-40°C)	2.6	ft·lb/in²	5.4	kJ/m²	
-4°F (-20°C)	3.1	ft·lb/in²	6.6	kJ/m²	
Charpy Notched Impact Strength					ISO 179/1eA
-22°F (-30°C)	2.3	ft·lb/in²	4.9	kJ/m²	
-4°F (-20°C)	2.9	ft·lb/in²	6.1	kJ/m²	
32°F (0°C)	3.6	ft·lb/in²	7.6	kJ/m²	
73°F (23°C)	7.5	ft·lb/in²	16	kJ/m²	
Gardner Impact					ASTM D5420
-20°F (-29°C), 0.125 in (3.18 mm), Geometry GC	187	in·lb	21.1	J	

Thermal	Typical Value (English)		Typical Value (SI)		Test Based On
Heat Deflection Temperature (1.80 MPa)	118	°F	47.9	°C	ISO 75-2/Af
Heat Deflection Temperature (0.45 MPa)	168	°F	75.7	°C	ISO 75-2/Bf
Deflection Temperature Under Load (DTUL) at 66psi - Unannealed	176	°F	80.0	°C	ASTM D648
DTUL (66 psi) - Annealed	229	°F	110	°C	ASTM D648

Manufacturer website: https://www.exxonmobilchemical.com/en/products/polyethylene

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Hardness	Typical Value (English)	Typical Value (SI)	Test Based On
Rockwell Hardness	▪ 88	▪ 88	ASTM D785
	▪ 88	▪ 88	

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: www.exxonmobilchemical.com/ContactUs

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