

ExxonMobil™ AXO3BE3

Polypropylene Impact Copolymer

Product Description

A high crystallinity, medium impact copolymer resin designed for injection-molded automotive interior applications and large appliance parts applications requiring high melt flow rate and excellent processing attributes.

General

Availability ¹	<ul style="list-style-type: none"> North America 		
Features	<ul style="list-style-type: none"> Fast Molding Cycle Good Flow 	<ul style="list-style-type: none"> Good Stiffness Impact Modified 	<ul style="list-style-type: none"> Nucleated
Uses	<ul style="list-style-type: none"> Appliances Automotive Applications 	<ul style="list-style-type: none"> Automotive Interior Parts Compounding 	<ul style="list-style-type: none"> Consumer Applications Industrial Applications
Appearance	<ul style="list-style-type: none"> Natural Color 		
Form(s)	<ul style="list-style-type: none"> Pellets 		
Processing Method	<ul style="list-style-type: none"> Injection Molding 		
Revision Date	<ul style="list-style-type: none"> 07/01/2017 		

Physical

	Typical Value (English)	Typical Value (SI)	Test Based On
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	35 g/10 min	35 g/10 min	ASTM D1238
Density	0.900 g/cm ³	0.900 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)	3670 psi	25.3 MPa	ASTM D638
Tensile Stress at Yield	3600 psi	24.8 MPa	ISO 527-2/50
Elongation at Yield (2.0 in/min (51 mm/min))	4.4 %	4.4 %	ASTM D638
Tensile Strain at Yield	4.1 %	4.1 %	ISO 527-2/50
Flexural Modulus - 1% Secant 0.051 in/min (1.3 mm/min)	203000 psi	1400 MPa	ASTM D790A
0.51 in/min (13 mm/min)	232000 psi	1600 MPa	ASTM D790B
Flexural Modulus (0.079 in/min (2.0 mm/min))	197000 psi	1360 MPa	ISO 178

Impact

	Typical Value (English)	Typical Value (SI)	Test Based On
Notched Izod Impact 0°F (-18°C)	0.80 ft-lb/in	43 J/m	ASTM D256A
73°F (23°C)	1.4 ft-lb/in	75 J/m	
Notched Izod Impact Strength -40°F (-40°C)	2.3 ft-lb/in ²	4.8 kJ/m ²	ISO 180/1A
-4°F (-20°C)	2.5 ft-lb/in ²	5.3 kJ/m ²	
73°F (23°C)	4.4 ft-lb/in ²	9.3 kJ/m ²	
Charpy Notched Impact Strength -22°F (-30°C)	2.1 ft-lb/in ²	4.4 kJ/m ²	ISO 179/1eA
-4°F (-20°C)	2.1 ft-lb/in ²	4.5 kJ/m ²	
32°F (0°C)	2.4 ft-lb/in ²	5.0 kJ/m ²	
73°F (23°C)	3.7 ft-lb/in ²	7.7 kJ/m ²	
Gardner Impact -20°F (-29°C), 0.125 in (3.18 mm), Geometry GC	169 in-lb	19.1 J	ASTM D5420

Thermal

	Typical Value (English)	Typical Value (SI)	Test Based On
Heat Deflection Temperature (1.80 MPa)	131 °F	55.0 °C	ISO 75-2/A
Heat Deflection Temperature (0.45 MPa)	208 °F	98.0 °C	ISO 75-2/Bf
Deflection Temperature Under Load (DTUL) at 66psi - Unannealed	226 °F	108 °C	ASTM D648
DTUL @ 66psi - Annealed	248 °F	120 °C	ASTM D648

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Hardness	Typical Value (English)	Typical Value (SI)	Test Based On
Rockwell Hardness	91	91	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: www.exxonmobilchemical.com/ContactUs

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