

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

Features	- Fast Molding Cycle - Good Flow	- Good Stiffness - Impact Modified	Nucleated
Uses	- Appliances - Automotive Applications	- Automotive Interior Parts - Compounding	- Consumer Applications - Industrial Applications
Appearance	Natural Color		
Form(s)	Pellets		
Processing Method	Injection Molding		

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

