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]	• North America		
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		
Revision Date	• 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/cm³	0.900 g/cm³	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) 0.51 in/min (13 mm/min)	 203000 psi 232000 psi	 1400 MPa 1600 MPa	 ASTM D790A 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) 73°F (23°C)	 0.80 ft-lb/in 1.4 ft-lb/in	 43 J/m 75 J/m	ASTM D256A
Notched Izod Impact Strength -40°F (-40°C) -4°F (-20°C) 73°F (23°C)	 2.3 ft-lb/in² 2.5 ft-lb/in² 4.4 ft-lb/in²	 4.8 kJ/m² 5.3 kJ/m² 9.3 kJ/m²	ISO 180/1A
Charpy Notched Impact Strength -22°F (-30°C) -4°F (-20°C) 32°F (0°C) 73°F (23°C)	 2.1 ft-lb/in² 2.1 ft-lb/in² 2.4 ft-lb/in² 3.7 ft-lb/in²	 4.4 kJ/m² 4.5 kJ/m² 5.0 kJ/m² 7.7 kJ/m²	ISO 179/1eA
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 49 °C
Heat Deflection Temperature (0.45 MPa)	208 °F	98.0 °C	ISO 75-2/B 49 °C
Deflection Temperature Under Load (DTUL) at 66psi – Unannealed	226 °F	108 °C	ASTM D648 49 °C
DTUL at 66psi – Annealed	248 °F	120 °C	ASTM D648 49 °C

Hardness	Typical Value (English)	Typical Value (SI)	Test Based On
Rockwell Hardness	91	91	ASTM D785

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 please contact our sales representative