

Exceed[™] AP03B (Legacy name: ExxonMobil™ AP03B) Polypropylene Impact Copolymer

Product Description

Exceed[™] AP03B is a high crystallinity, medium impact copolymer resin with high melt flow rate and excellent processing attributes. It is designed for injection molded large appliance applications and automotive interior parts.

 Africa & Middle East Asia Pacific	EuropeLatin America	 North America
Fast Molding CycleGood Processability	High FlowHigh Stiffness	Highly CrystallineMedium Impact Resistance
 Appliance Components Automotive Applications	Automotive Interior PartsConsumer Applications	 Industrial Applications
 Natural Color 		
 Pellets 		
 Injection Molding 		
• 09/25/2023		
	Asia Pacific Fast Molding Cycle Good Processability Appliance Components Automotive Applications Natural Color Pellets Injection Molding	 Asia Pacific Latin America Fast Molding Cycle High Flow Good Processability High Stiffness Appliance Components Automotive Applications Automotive Applications Natural Color Pellets Injection Molding

Physical	Typical Value	(English)	Typical Value	(SI)	Test Based On
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	30	g/10 min	30	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)	3740 psi	25.8 MPa	
Tensile Stress at Yield	3730 psi	25.7 MPa	ISO 527-2/50
Elongation at Yield (2.0 in/min (51 mm/min))	5.1 %	5.1 %	ASTM D638
Tensile Strain at Yield	4.8 %	4.8 %	ISO 527-2/50
Flexural Modulus - 1% Secant			
0.051 in/min (1.3 mm/min)	200000 psi	1380 MPa	ASTM D790A
0.51 in/min (13 mm/min)	229000 psi	1580 MPa	ASTM D790B
Flexural Modulus (0.079 in/min (2.0 mm/min))	200000 psi	1380 MPa	ISO 178

npact	Typical Value	(English)	Typical Value	(SI)	Test Based On
Notched Izod Impact					ASTM D256A
0°F (-18°C)	0.70	ft·lb/in	37	J/m	
73°F (23°C)	1.6	ft·lb/in	85	J/m	
Notched Izod Impact Strength					ISO 180/1A
-40°F (-40°C)	2.5	ft·lb/in²	5.2	kJ/m²	
-4°F (-20°C)	2.7	ft·lb/in²	5.7	kJ/m²	
73°F (23°C)	4.8	ft·lb/in²	10	kJ/m²	
Charpy Notched Impact Strength					ISO 179/1eA
-22°F (-30°C)	1.4	ft·lb/in²	2.9	kJ/m²	
-4°F (-20°C)	2.0	ft·lb/in²	4.3	kJ/m²	
32°F (0°C)	2.5	ft·lb/in²	5.2	kJ/m²	
73°F (23°C)	4.0	ft·lb/in²	8.4	kJ/m²	

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Heat Deflection Temperature (1.80 MPa)	129 °F	54.0 °C	ISO 75-2/A
Heat Deflection Temperature (0.45 MPa)	203 °F	95.0 °C	ISO 75-2/Bf
Deflection Temperature Under Load (DTUL) at 66psi - Unannealed	223 °F	106 °C	ASTM D648
DTUL (66 psi) - Annealed	243 °F	117 °C	ASTM D648

E**∦onMobi**l

Exceed™ AP03B Polypropylene Impact Copolymer

Hardness	Typical Value (English)	Typical Value (SI)	Test Based On
Rockwell Hardness	94	94	ASTM D785

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: Contact Us

©2025 ExxonMobil. ExxonMobil, the ExxonMobil logo, the interlocking "X" device and other product or service names used herein are trademarks of ExxonMobil, unless indicated otherwise. This document may not be distributed, displayed, copied or altered without ExxonMobil's prior written authorization. To the extent ExxonMobil authorizes distributing, displaying and/or copying of this document, the user may do so only if the document is unaltered and complete, including all of its headers, footers, disclaimers and other information. You may not copy this document to or reproduce it in whole or in part on a website. ExxonMobil does not guarantee the typical (or other) values. Any data included herein is based upon analysis of representative samples and not the actual product shipped. The information in this document relates only to the named product or materials when not in combination with any other product or materials. We based the information on data believed to be reliable on the date compiled, but we do not represent, warrant, or otherwise guarantee, expressly or impliedly, the merchantability, fitness for a particular purpose, freedom from patent infringement, suitability, accuracy, reliability, or completeness of this information or the products, materials or processes described. The user is solely responsible for all determinations regarding any use of material or product and any process in its territories of interest. We expressly disclaim liability for any loss, damage or injury directly or indirectly suffered or incurred as a result of or related to anyone using or relying on any of the information in this document. This document is not an endorsement of any non-ExxonMobil product or process, and we expressly disclaim any contrary implication. The terms "we," "our," "ExxonMobil Product Solutions" and "ExxonMobil" are each used for convenience, and may include any one or more of ExxonMobil Product Solutions Company, Exxon Mobil Corporation, or any affiliate either directly or indirectly stewarded.

exxonmobilchemical.com