

## ExxonMobil™ AP03B

## Polypropylene Impact Copolymer

## Product Description

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.

General					
	Asia Pacific				
Features	Fast Molding Cycle		<ul><li>High Flow</li><li>High Stiffness</li></ul>		Crystalline
	Appliance Compone	nts	Automotive Interior Parts		rial Applications
	Automotive Applicat		<ul> <li>Consumer Applications</li> </ul>		
Appearance	Natural Color		•		
Form(s)	Pellets				
Processing Method	Injection Molding				
Revision Date	04/01/2017				
		(= 1:1)		(=:)	
Physical Physical (22005 (24) L	Typical Value		Typical Value		Test Based On
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg		g/10 min		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	71		/1		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		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
mpact	Typical Value	(Enalish)	Typical Value	(SI)	Test Based On
Notched Izod Impact	71	, ,	71	, ,	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		kJ/m²	
-4°F (-20°C)		ft·lb/in²		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)	***	ft·lb/in²		kJ/m²	
-4°F (-20°C)		ft·lb/in²		kJ/m²	
32°F (0°C)		ft·lb/in²		kJ/m²	
73°F (23°C)	4.0	ft·lb/in²	8.4	kJ/m²	ACTN4 DE 420
Gardner Impact -20°F (-29°C), 0.125 in (3.18 mm),	120	in·lb	14.5	1	ASTM D5420
-20°F (-29°C), 0.125 in (3.18 mm), Geometry GC	128	טויווו	14.5	J	
222					
hermal	Typical Value	(English)	Typical Value	(SI)	Test Based On
Heat Deflection Temperature (1.80 MPa)	129		54.0		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

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

<sup>1</sup> 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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