

ExxonMobilTM 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 Availability ¹ •	Asia Pacific					
,	Fast Molding Cycle	مام¦سا ₄	Flow	• Lliable	v Crystallino	
	Good Processability	-	High FlowHigh Stiffness		Highly CrystallineMedium Impact Resistance	
	Appliance Components Automotive Applications • Automotive Interior Parts • Consumer Applications		Industrial Applications			
Appearance •	Natural Color					
Form(s) •	Pellets					
	Injection Molding					
Revision Date •	04/01/2017					
Physical	Typical Val	ue (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/cm ³	0.900	g/cm ³	ExxonMobil Method	
Machanian	T. minal Mal	(Frailiah)	Tomical	\/=l··-= (CI)	Task Dasad On	
Mechanical Total Communication (Communication Communication Communicatio	i ypicai Vali	ue (English)	rypicar	Value (SI)	Test Based On	
Tensile Strength at Yield	2740	nei	25.0	MPa	ASTM D638	
2.0 in/min (51 mm/min) Tensile Stress at Yield	3740 3730	•		MPa MPa	ISO 527-2/50	
Elongation at Yield	5.1	·	5.1	%	ASTM D638	
(2.0 in/min (51 mm/min))						
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	noi	1380	MPa	ASTM D790A	
0.51 in/min (1.3 mm/min)	200000 229000	psi psi	1580		ASTM D790A ASTM D790B	
Flexural Modulus						
(0.079 in/min (2.0 mm/min))	200000	psi	1380	MPa	ISO 178	
mpact	Typical Val	ue (English)	Typical	Value (SI)	Test Based On	
Notched Izod Impact	. 71	(=g)	. 71		ASTM D256A	
0°F (-18°C)	0.70	ft-lb/in	37	J/m	7.6 T.W 22667.	
73°F (23°C)	1.6	ft-lb/in	85	J/m		
Notched Izod Impact Strength					ISO 180/1A	
-40°F (-40°C)		ft-lb/in ²		kJ/m ²		
-4°F (-20°C) 73°F (23°C)		ft-lb/in ² ft-lb/in ²		kJ/m² kJ/m²		
Charpy Notched Impact Strength	4.0	11-10/111	10	NO/III	ISO 179/1eA	
-22°F (-30°C)	1.4	ft-lb/in ²	2.9	kJ/m²	100 110/10/1	
-4°F (-20°C)		ft-lb/in ²	-	kJ/m²		
32°F (0°C)		ft-lb/in ²		kJ/m ²		
73°F (23°C)	4.0	ft-lb/in ²	8.4	kJ/m ²		
Gardner Impact -20°F (-29°C), 0.125 in (3.18 mm), Geometry GC	128	in-lb	14.5	J	ASTM D5420	
Γhermal	Typical Val	ue (English)	Typical	Value (SI)	Test Based On	
Heat Deflection Temperature (1.80 MPa)	129	, , ,	54.0		ISO 75-2/ A 9 °C	
Heat Deflection Temperature (0.45 MPa)			95.0		ISO 75-2/ B f9 °C	
Deflection Temperature Under Load (DTI at 66psi – Unannealed			106		ASTM D6489 °C	
DTUL at 66psi – Annealed	243	°F	117	°C	ASTM D6489 °C	
Usadassa	T	/F /F /	-	V-1 (OI)	T	
Hardness	,,	ue (English)		Value (SI)	Test Based On	
Rockwell Hardness	94		94		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

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