

ExxonMobil AP03B Polypropylene Impact Copolymer

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Impact Modified; Molded/Extruded

Material Notes:

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. **Availability:** Asia Pacific **Features:** Fast Molding Cycle Good Processability High Flow High Stiffness Highly Crystalline Medium Impact Resistance **Uses:** Appliance Components Automotive Applications Automotive Interior Parts Consumer Applications Industrial Applications **Processing Method:** Injection Molding **Information provided by ExxonMobil**

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-AP03B-Polypropylene-Impact-Copolymer.php

Physical Properties	Metric	English	Comments
Density	0.900 g/cc	0.0325 lb/in ³	ExxonMobil Method
Melt Flow	30 g/10 min	30 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 230 °C	@Load 4.76 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	25.1 MPa	3640 psi	ISO 527-2/50
	26.6 MPa	3860 psi	2.0 in/min; ASTM D638
Elongation at Yield	4.9 %	4.9 %	ISO 527-2/50
	5.0 %	5.0 %	2.0 in/min; ASTM D638
Tensile Modulus	1.44 GPa	209 ksi	ISO 527-2/1
Flexural Modulus	1.26 GPa	183 ksi	0.079 in/min; ISO 178
Flexural Modulus, 1% Secant	1310 MPa	190000 psi	0.05 in/min; ASTM D790A
	1500 MPa	217000 psi	0.5 in/min; ASTM D790B
Izod Impact, Notched	0.342 J/cm	0.640 ft-lb/in	ASTM D256A
	@Temperature -17.8 °C	@Temperature 0.000 °F	
Izod Impact, Notched (ISO)	0.694 J/cm	1.30 ft-lb/in	ASTM D256A
	@Temperature 22.8 °C	@Temperature 73.0 °F	
Izod Impact, Notched (ISO)	2.94 kJ/m ²	1.40 ft-lb/in ²	ISO 180/1A
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	3.99 kJ/m ²	1.90 ft-lb/in ²	

Mechanical Properties	Metric	English	ISO 180/1A Comments
	7.98 kJ/m ² @Temperature -17.8 °C	3.80 ft-lb/in ² @Temperature 0.000 °F	ISO 180/1A
	@Temperature 22.8 °C	@Temperature 73.0 °F	
Charpy Impact, Notched	0.336 J/cm ² @Temperature -30.0 °C	1.60 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eA
	0.378 J/cm ² @Temperature -20.0 °C	1.80 ft-lb/in ² @Temperature -4.00 °F	ISO 179/1eA
	0.420 J/cm ² @Temperature 0.000 °C	2.00 ft-lb/in ² @Temperature 32.0 °F	ISO 179/1eA
	0.756 J/cm ² @Temperature 22.8 °C	3.60 ft-lb/in ² @Temperature 73.0 °F	ISO 179/1eA
Gardner Impact	17.3 J @Thickness 3.17 mm, Temperature -28.9 °C	12.7 ft-lb @Thickness 0.125 in, Temperature -20.0 °F	Geometry GC; ASTM D5420

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	93.3 °C	200 °F	ISO 75-2/Bf
	105 °C	221 °F	Unannealed; ASTM D648
	119 °C	246 °F	Annealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	54.4 °C	130 °F	ISO 75-2/A

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