

ExxonMobil AP3AW Polypropylene Impact Copolymer

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

Material Notes:

Product Description: A UV stabilized medium impact copolymer resin designed for automotive battery cases. **Availability:** Asia Pacific

Features: Good UV Resistance High Stiffness Low Warpage Medium Flow Medium Impact Resistance Nucleated **Uses:** Automotive

Applications: Automotive Under the Hood Battery Cases **Processing Method:** Injection Molding **Information provided by ExxonMobil**

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-AP3AW-Polypropylene-Impact-Copolymer.php

Physical Properties	Metric	English	Comments
Density	0.900 g/cc	0.0325 lb/in ³	ExxonMobil Method
Melt Flow	10 g/10 min	10 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	25.7 MPa	3730 psi	ISO 527-2/50
	27.1 MPa	3930 psi	2.0 in/min; ASTM D638
Elongation at Yield	5.6 %	5.6 %	2.0 in/min; ASTM D638
	5.7 %	5.7 %	ISO 527-2/50
Tensile Modulus	1.50 GPa	218 ksi	ISO 527-2/1
Flexural Modulus	1.34 GPa	194 ksi	0.079 in/min; ISO 178
Flexural Modulus, 1% Secant	1340 MPa	194000 psi	0.05 in/min; ASTM D790A
	1520 MPa	220000 psi	0.5 in/min; ASTM D790B
Izod Impact, Notched	0.352 J/cm	0.660 ft-lb/in	ASTM D256A
	@Temperature -17.8 °C	@Temperature 0.000 °F	
Izod Impact, Notched	0.908 J/cm	1.70 ft-lb/in	ASTM D256A
	@Temperature 22.8 °C	@Temperature 73.0 °F	
Izod Impact, Notched (ISO)	3.36 kJ/m ²	1.60 ft-lb/in ²	ISO 180/1A
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Izod Impact, Notched (ISO)	4.41 kJ/m ²	2.10 ft-lb/in ²	ISO 180/1A
	@Temperature -17.8 °C	@Temperature 0.000 °F	

Mechanical Properties	8.82 kJ/m ² Metric	4.20 ft-lb/in ² English	Comments
	@Temperature 22.8 °C	@Temperature 73.0 °F	
Charpy Impact, Notched	0.315 J/cm ²	1.50 ft-lb/in ²	ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	0.399 J/cm ²	1.90 ft-lb/in ²	ISO 179/1eA
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	0.504 J/cm ²	2.40 ft-lb/in ²	ISO 179/1eA
	@Temperature 0.000 °C	@Temperature 32.0 °F	
	0.987 J/cm ²	4.70 ft-lb/in ²	ISO 179/1eA
	@Temperature 22.8 °C	@Temperature 73.0 °F	
Gardner Impact	18.1 J	13.3 ft-lb	Geometry GC; ASTM D5420
	@Thickness 3.17 mm, Temperature -28.9 °C	@Thickness 0.125 in, Temperature -20.0 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	92.8 °C	199 °F	ISO 75-2/Bf
	99.4 °C	211 °F	Unannealed; ASTM D648
	116 °C	241 °F	Annealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	53.3 °C	128 °F	ISO 75-2/A

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