

ExxonMobil AP3N Polypropylene Impact Copolymer

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

Material Notes:

Product Description: A medium impact copolymer resin designed for appliance applications requiring good stiffness and fast cycle

time. Availability: Asia Pacific Features: Fast Molding Cycle High Gloss High Stiffness Medium Flow Medium Impact Resistance Nucleated

Uses: Appliance Components Appliances Consumer Applications Processing Method: Injection Molding Information provided by ExxonMobil

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-AP3N-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	28.2 MPa	4090 psi	ISO 527-2/50
	28.8 MPa	4180 psi	2.0 in/min; ASTM D638
Elongation at Yield	5.0 %	5.0 %	2.0 in/min; ASTM D638
	5.0 %	5.0 %	ISO 527-2/50
Tensile Modulus	1.69 GPa	245 ksi	ISO 527-2/1
Flexural Modulus	1.51 GPa	219 ksi	0.079 in/min; ISO 178
Flexural Modulus, 1% Secant	1480 MPa	215000 psi	0.05 in/min; ASTM D790A
	1710 MPa	248000 psi	0.5 in/min; ASTM D790B
Izod Impact, Notched	0.961 J/cm	1.80 ft-lb/in	ASTM D256A
	@Temperature 22.8 °C	@Temperature 73.0 °F	
Izod Impact, Notched (ISO)	3.78 kJ/m ²	1.80 ft-lb/in ²	ISO 180/1A
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	4.62 kJ/m ²	2.20 ft-lb/in ²	ISO 180/1A
	@Temperature -17.8 °C	@Temperature 0.000 °F	
	8.19 kJ/m ²	3.90 ft-lb/in ²	ISO 180/1A
	@Temperature 22.8 °C	@Temperature 73.0 °F	

Mechanical Properties _J	0.357 J/cm ² Metric	1.70 ft-lb/in ² English	Comments _A
	@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	
	0.462 J/cm ²	2.20 ft-lb/in ²	ISO 179/1eA
	@Temperature 0.000 °C	@Temperature 32.0 °F	
	0.861 J/cm ²	4.10 ft-lb/in ²	ISO 179/1eA
	@Temperature 22.8 °C	@Temperature 73.0 °F	
Gardner Impact	18.0 J	13.2 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)	100 °C	212 °F	ISO 75-2/Bf
	114 °C	237 °F	Unannealed; ASTM D648
	123 °C	253 °F	Annealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	53.9 °C	129 °F	ISO 75-2/A

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