

DuPont Bexloy® AXW507NC010 Modified Ionomer Resin (discontinued **)

Category : Polymer , Thermoplastic , Ionomer , Ionomer, Molded

Material Notes:

A modified ionomer resin engineered for injection molded exterior automotive applications. Availability: North America Information provided by DuPont.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Bexloy-AXW507NC010-Modified-Ionomer-Resin-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	0.970 g/cc	0.0350 lb/in ³	ASTM D792 - ISO 1183
Linear Mold Shrinkage, Flow	0.012 cm/cm	0.012 in/in	ASTM D955
Melt Flow	1.7 g/10 min @Load 2.16 kg, Temperature 190 °C	1.7 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238 - ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	20.0 MPa	2900 psi	ASTM D638 - ISO 527-2
Elongation at Break	400 %	400 %	ASTM D638 - ISO 527-2
Flexural Modulus	0.68200 GPa	98.916 ksi	ASTM D790
Izod Impact, Notched	8.54 J/cm @Temperature -30.0 °C	16.0 ft-lb/in @Temperature -22.0 °F	ASTM D256
Gardner Impact	36.2 J @Temperature -30.0 °C	26.7 ft-lb @Temperature -22.0 °F	ASTM D3029
Impact Test	18.0 J @Temperature -30.0 °C	13.2 ft-lb @Temperature -22.0 °F	Rheometric, 5mph, 1/2" diameter tup, 3" diameter ring
	21.9 J @Temperature 22.8 °C	16.2 ft-lb @Temperature 73.0 °F	Rheometric, 5mph, 1/2" diameter tup, 3" diameter ring
Tear Strength	164 kN/m	935 pli	At 73°F; ASTM D624

Thermal Properties	Metric	English	Comments
CTE, linear	84.0 µm/m-°C @Temperature -30.0 - 80.0 °C	46.7 µin/in-°F @Temperature -22.0 - 176 °F	ASTM E831

Processing Properties	Metric	English	Comments
Nozzle Temperature	238 - 271 °C	460 - 520 °F	
Melt Temperature	238 - 288 °C	460 - 550 °F	
Mold Temperature	15.6 - 60.0 °C	60.0 - 140 °F	
Drying Temperature	60.0 - 79.4 °C	140 - 175 °F	
Moisture Content	<= 0.080 %	<= 0.080 %	
Back Pressure	>= 0.345 MPa	>= 50.0 psi	no units given

Descriptive Properties	Value	Comments
Heat Sag, 82°C	13 mm	ASTM D3770
Injection Speed	Fast	

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