

DuPont™ Surlyn® 9320 Zinc Ionomer

Category : Polymer , Thermoplastic , Ionomer

Material Notes:

Surlyn® 9320 is a zinc ionomer thermoplastic resin. It is available for use in conventional extrusion and injection equipment, to create various sheets or shapes. Surlyn® 9320 thermoplastic resin is an advanced ethylene/acid/acrylate terpolymer, in which some of the MAA acid groups have been partially neutralized with zinc ions.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Surlyn-9320-Zinc-Ionomer.php

Physical Properties	Metric	English	Comments
Density	0.960 g/cc	0.0347 lb/in ³	ASTM D792, ISO 1183
Melt Flow	0.80 g/10 min @Load 2.16 kg, Temperature 190 °C	0.80 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238, ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	40	40	ASTM D2240, ISO 868
Abrasive Hardness	169	169	NBS Index, ASTM D1630
Tensile Strength at Break	15.9 MPa @Temperature 23.0 °C	2310 psi @Temperature 73.4 °F	ASTM D638, ISO 527-2
Tensile Strength, Yield	3.50 MPa @Temperature 23.0 °C	508 psi @Temperature 73.4 °F	ASTM D638
Elongation at Break	525 % @Temperature 23.0 °C	525 % @Temperature 73.4 °F	ASTM D638, ISO 527-2
Flexural Modulus	0.0296 GPa @Temperature 23.0 °C	4.29 ksi @Temperature 73.4 °F	ASTM D790

Thermal Properties	Metric	English	Comments
Melting Point	37.0 °C	98.6 °F	Freezing Point; ASTM D3418, ISO 3146
	70.0 °C	158 °F	ASTM D3418, ISO 3146
Vicat Softening Point	48.0 °C	118 °F	ASTM D1525, ISO 306

Optical Properties	Metric	English	Comments
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Optical Properties	Metric	English	Comments
	@Thickness 6.35 mm	@Thickness 0.250 in	

Processing Properties	Metric	English	Comments
Processing Temperature	<= 285 °C	<= 545 °F	
Melt Temperature	185 - 285 °C	365 - 545 °F	

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