

DuPont™ Surlyn® 9120 Ionomer Resin, Zinc

Category : Polymer , Thermoplastic , Ionomer , Ionomer, Molded

Material Notes:

Surlyn® 9120 thermoplastic resin is an advanced ethylene/methacrylic acid (E/MAA) copolymer, in which the MAA acid groups have been partially neutralized with zinc ions. The amount of MAA and neutralization levels for this grade are optimized to deliver exceptional low-temperature toughness. The resin is highly suitable as a polymer modifier, to increase toughness. Surlyn® 9120 can be injection or blow molded, and is processable by extrusion into sheets or shapes. Data provided by the manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Surlyn-9120-Ionomer-Resin-Zinc.php

Physical Properties	Metric	English	Comments
Density	0.970 g/cc	0.0350 lb/in³	ASTM D792
Melt Flow	1.3 g/10 min @Load 2.16 kg, Temperature 190 °C	1.3 g/10 min @Load 4.76 lb, Temperature 374 °F	condition E; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	66	66	ASTM D2240
Tensile Strength, Ultimate	36.5 MPa	5290 psi	ASTM D638
Tensile Strength, Yield	18.6 MPa	2700 psi	50 mm/min cross speed; ASTM D638
Elongation at Break	345 %	345 %	ASTM D638
Flexural Modulus	0.4275 GPa	62.00 ksi	ASTM D790
Abrasion	1031	1031	NBS Index; ASTM D1630

Thermal Properties	Metric	English	Comments
Melting Point	86.0 °C	187 °F	DSC
Vicat Softening Point	60.0 °C	140 °F	Rate B, ASTM D1525-70

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