

DuPont™ Surlyn® 9150 Ionomer Resin, Zinc

Category : Polymer , Thermoplastic , Ionomer , Ionomer, Molded

Material Notes:

Surlyn® 9150 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 high MAA content and mid-range neutralization level for this grade creates an exceptional combination of strengths: toughness, low-temperature toughness, tear resistance, excellent clarity, and high stiffness compared with other grades of Surlyn®. The resin is optimized for injection molding. It complies with the provisions of U.S. Food and Drug Administration (FDA) Title 21 Code of Regulations 177.1330 - ionomer resins. Data provided by the manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Surlyn-9150-Ionomer-Resin-Zinc.php

Physical Properties	Metric	English	Comments
Density	0.970 g/cc	0.0350 lb/in³	ASTM D792
Melt Flow	4.5 g/10 min @Load 2.16 kg, Temperature 190 °C	4.5 g/10 min @Load 4.76 lb, Temperature 374 °F	condition E; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	63	63	ASTM D2240
Tensile Strength, Ultimate	28.3 MPa	4100 psi	ASTM D638
Tensile Strength, Yield	15.9 MPa	2310 psi	50 mm/min cross speed; ASTM D638
Elongation at Break	335 %	335 %	ASTM D638
Flexural Modulus	0.3585 GPa	52.00 ksi	ASTM D790
Abrasion	368	368	NBS Index; ASTM D1630

Thermal Properties	Metric	English	Comments
Melting Point	82.0 °C	180 °F	DSC
Vicat Softening Point	57.0 °C	135 °F	Rate B, ASTM D1525-70

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