

DuPont™ Surlyn® 9950 Ionomer Resin, Zinc

Category : Polymer , Thermoplastic , Ionomer , Ionomer, Molded

Material Notes:

Surlyn® 9950 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 result in good tear resistance, clarity, and stiffness compared with other grades of Surlyn®. The resin can be injection molded. 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-9950-Ionomer-Resin-Zinc.php

Physical Properties	Metric	English	Comments
Density	0.960 g/cc	0.0347 lb/in ³	ASTM D792
Melt Flow	5.5 g/10 min @Load 2.16 kg, Temperature 190 °C	5.5 g/10 min @Load 4.76 lb, Temperature 374 °F	condition E; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	62	62	ASTM D2240
Tensile Strength, Ultimate	28.3 MPa	4100 psi	ASTM D638
Tensile Strength, Yield	12.4 MPa	1800 psi	50 mm/min cross speed, ASTM D638
Elongation at Break	490 %	490 %	ASTM D638
Flexural Modulus	0.250 GPa	36.3 ksi	ASTM D790
Izod Impact, Notched	NB	NB	ASTM D256
Tensile Impact Strength	1020 kJ/m ²	485 ft-lb/in ²	ASTM D1822S
Abrasion	130	130	NBS Index; ASTM D1630

Thermal Properties	Metric	English	Comments
CTE, linear	150 µm/m-°C @Temperature -20.0 - 32.0 °C	83.3 µin/in-°F @Temperature -4.00 - 89.6 °F	ASTM D696
Thermal Conductivity	0.240 W/m-K	1.67 BTU-in/hr-ft ² -°F	
Melting Point	87.0 °C	189 °F	DTA
Deflection Temperature at 0.46 MPa (66 psi)	47.0 °C	117 °F	ASTM D648

Vicat Softening Point Thermal Properties	66.0 °C Metric	151 °F English	Rate B, ASTM D1525-70 Comments
Brittleness Temperature	-100 °C	-148 °F	ASTM D746
Flame Spread	27.9 mm/min	1.10 in/min	ASTM D635

Optical Properties	Metric	English	Comments
Haze	18 % @Thickness 6.40 mm	18 % @Thickness 0.252 in	ASTM D1003A
Gloss	30 %	30 %	20° per ASTM D523-6

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