

DuPont™ Surlyn® 9970 Ionomer Resin, Zinc (discontinued **)

Category : Polymer , Thermoplastic , Ionomer , Ionomer, Molded

Material Notes:

Surlyn® 9970 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 excellent clarity, good tear resistance and a high melt flow index (14) 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-9970-Ionomer-Resin-Zinc-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	0.940 g/cc	0.0340 lb/in ³	ASTM D792
Melt Flow	14 g/10 min @Load 2.16 kg, Temperature 190 °C	14 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	22.1 MPa	3210 psi	ASTM D638
Tensile Strength, Yield	11.0 MPa	1600 psi	50 mm/min cross speed; ASTM D638
Elongation at Break	460 %	460 %	ASTM D638
Flexural Modulus	0.190 GPa	27.6 ksi	ASTM D790
Izod Impact, Notched	NB	NB	ASTM D256
Tensile Impact Strength	760 kJ/m ²	362 ft-lb/in ²	ASTM D1822S
Abrasion	120	120	NBS Index; ASTM D1630

Thermal Properties	Metric	English	Comments
CTE, linear	140 µm/m-°C @Temperature -20.0 - 32.0 °C	77.8 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	88.0 °C	190 °F	DTA
Deflection Temperature at 0.46 MPa			

(56 psi)	40.0 °C	104 °F	ASTM D648
Thermal Properties	Metric	English	Comments
Vicat Softening Point	61.0 °C	142 °F	Rate B, ASTM D1525-70
Flame Spread	27.9 mm/min	1.10 in/min	ASTM D635

Optical Properties	Metric	English	Comments
Haze	7.0 % @Thickness 6.40 mm	7.0 % @Thickness 0.252 in	ASTM D1003A
Gloss	85 %	85 %	20° per ASTM D523-6

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