

DuPont™ Surlyn® 9730 Ionomer Resin, Zinc (discontinued **)

Category : Polymer , Thermoplastic , Ionomer , Ionomer, Molded

Material Notes:

Surlyn® 9730 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 a combination of toughness, tear resistance, and clarity. The resin can be injection molded or extruded into sheets or shapes. 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-9730-Ionomer-Resin-Zinc-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	0.940 g/cc	0.0340 lb/in ³	ASTM D792
Melt Flow	1.6 g/10 min @Load 2.16 kg, Temperature 190 °C	1.6 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	11.0 MPa	1600 psi	50 mm/min cross speed; ASTM D638
Elongation at Break	460 %	460 %	ASTM D638
Flexural Modulus	0.210 GPa	30.5 ksi	ASTM D790
Izod Impact, Notched	NB	NB	ASTM D256
Tensile Impact Strength	1240 kJ/m ²	590 ft-lb/in ²	ASTM D1822S
Abrasion	360	360	NBS Index; ASTM D1630

Thermal Properties	Metric	English	Comments
CTE, linear	160 µm/m-°C @Temperature -20.0 - 32.0 °C	88.9 µin/in-°F @Temperature -4.00 - 89.6 °F	ASTM D696
Thermal Conductivity	0.250 W/m-K	1.74 BTU-in/hr-ft ² -°F	
Melting Point	90.0 °C	194 °F	DTA
Deflection Temperature at 0.46 MPa (66 psi)	40.0 °C	104 °F	ASTM D648

Vicat Softening Point Thermal Properties	73.0 °C Metric	163 °F English	Rate B, ASTM D1525-70 Comments
Brittleness Temperature	-100 °C	-148 °F	ASTM D746
Flame Spread	20.3 mm/min	0.799 in/min	ASTM D635

Optical Properties	Metric	English	Comments
Haze	15 % @Thickness 6.40 mm	15 % @Thickness 0.252 in	ASTM D1003A
Gloss	25 %	25 %	20° per ASTM D523-6

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