

DuPont™ Surlyn® 9910 Ionomer Resin, Zinc

Category : Polymer , Thermoplastic , Ionomer , Ionomer, Molded

Material Notes:

Surlyn® 9910 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 high clarity, stiffness and abrasion resistance, along with a very low melt flow index of 0.7. The resin can be extruded, blow molded, and injection molded. In golf ball covers, it provides excellent durability, especially when blended with other grades of Surlyn® made with other cations. 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-9910-Ionomer-Resin-Zinc.php

Physical Properties	Metric	English	Comments
Density	0.970 g/cc	0.0350 lb/in³	ASTM D792
Melt Flow	0.70 g/10 min @Load 2.16 kg, Temperature 190 °C	0.70 g/10 min @Load 4.76 lb, Temperature 374 °F	condition E; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	64	64	ASTM D2240
Tensile Strength, Ultimate	24.8 MPa	3600 psi	ASTM D638
Tensile Strength, Yield	13.8 MPa	2000 psi	50 mm/min cross speed; ASTM D638
Elongation at Break	290 %	290 %	ASTM D638
Flexural Modulus	0.330 GPa	47.9 ksi	ASTM D790
Izod Impact, Notched	3.65 J/cm	6.84 ft-lb/in	ASTM D256
Tensile Impact Strength	1020 kJ/m²	485 ft-lb/in²	ASTM D1822S
Abrasion	610	610	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	0.230 W/m-K	1.60 BTU-in/hr-ft²-°F	
Melting Point	86.0 °C	187 °F	DSC

Thermal Properties Deflection Temperature at 0.46 MPa (66 psi)	Metric	English	Comments
Vicat Softening Point	62.0 °C	144 °F	Rate B, ASTM D1525-70
Brittleness Temperature	-105 °C	-157 °F	ASTM D746
Flame Spread	22.9 mm/min	0.902 in/min	ASTM D635

Optical Properties	Metric	English	Comments
Haze	6.0 % @ Thickness 6.35 mm	6.0 % @ Thickness 0.250 in	ASTM D1003A
Gloss	60 %	60 %	20° per ASTM D523-6

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