

DuPont™ Surlyn® 8940 Ionomer Resin, Sodium

Category : Polymer , Thermoplastic , Ionomer , Ionomer, Molded

Material Notes:

Surlyn® 8940 thermoplastic resin is an advanced ethylene/methacrylic acid (E/MAA) copolymer, in which the MAA acid groups have been partially neutralized with sodium ions. The amount of MAA and neutralization levels for this grade are optimized to deliver excellent clarity and high stiffness compared with other grades of Surlyn®. The resin can be injection molded, and is processable by extrusion 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-8940-Ionomer-Resin-Sodium.php

Physical Properties	Metric	English	Comments
Density	0.950 g/cc	0.0343 lb/in ³	ASTM D792
Melt Flow	2.8 g/10 min @Load 2.16 kg, Temperature 190 °C	2.8 g/10 min @Load 4.76 lb, Temperature 374 °F	condition E; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	65	65	ASTM D2240
Tensile Strength, Ultimate	33.0 MPa	4790 psi	ASTM D638
Tensile Strength, Yield	15.0 MPa	2180 psi	50 mm/min cross speed; ASTM D638
Elongation at Break	470 %	470 %	ASTM D638
Flexural Modulus	0.350 GPa	50.8 ksi	ASTM D790
Izod Impact, Notched	10.25 J/cm	19.20 ft-lb/in	ASTM D256
Tensile Impact Strength	1020 kJ/m ²	485 ft-lb/in ²	ASTM D1822S
Tear Strength	148 kN/m	844 pli	Die C; ASTM D624
Abrasion	370	370	NBS Index; ASTM D1630

Thermal Properties	Metric	English	Comments
CTE, linear	100 µm/m-°C @Temperature -20.0 - 32.0 °C	55.6 µin/in-°F @Temperature -4.00 - 89.6 °F	ASTM D696
Thermal Conductivity	0.246 W/m-K	1.71 BTU-in/hr-ft ² -°F	
Melting Point	94.0 °C	201 °F	DSC

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	44.0 °C	111 °F	ASTM D648
Vicat Softening Point	63.0 °C	145 °F	Rate B, ASTM D1525-70
Brittleness Temperature	-106 °C	-159 °F	ASTM D746
Flame Spread	22.9 mm/min	0.902 in/min	ASTM D635

Optical Properties	Metric	English	Comments
Haze	5.0 % @Thickness 6.40 mm	5.0 % @Thickness 0.252 in	ASTM D1003A
Gloss	50 %	50 %	20° per ASTM D523-6

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