

DuPont™ Surlyn® 8920 Ionomer Resin, Sodium

Category : Polymer , Thermoplastic , Ionomer , Ionomer, Molded

Material Notes:

Surlyn® 8920 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 result in excellent abrasion resistance, clarity, and stiffness. The resin can be injection or blow molded, and is processable by extrusion into sheets or shapes. It can also be used as a nucleating agent for PET molding applications. The resin 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-8920-Ionomer-Resin-Sodium.php

Physical Properties	Metric	English	Comments
Density	0.950 g/cc	0.0343 lb/in ³	ASTM D792
Melt Flow	0.90 g/10 min @Load 2.16 kg, Temperature 190 °C	0.90 g/10 min @Load 4.76 lb, Temperature 374 °F	condition E; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	66	66	ASTM D2240
Tensile Strength, Ultimate	37.2 MPa	5400 psi	ASTM D638
Tensile Strength, Yield	15.2 MPa	2200 psi	50 mm/min cross speed; ASTM D638
Elongation at Break	350 %	350 %	ASTM D638
Flexural Modulus	0.350 GPa	50.8 ksi	ASTM D790
Izod Impact, Notched	6.35 J/cm	11.9 ft-lb/in	ASTM D256
Tensile Impact Strength	860 kJ/m ²	409 ft-lb/in ²	ASTM D1822S
Abrasion	640	640	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	DSC
Deflection Temperature at 0.46 MPa			

<small>(56 psi)</small> Thermal Properties	44.0 °C Metric	111 °F English	ASTM D648 Comments
Vicat Softening Point	45.0 °C	113 °F	Rate B, ASTM D1525-70
Flame Spread	20.3 mm/min	0.799 in/min	ASTM D635

Optical Properties	Metric	English	Comments
Haze	4.0 % @Thickness 6.35 mm	4.0 % @Thickness 0.250 in	ASTM D1003A
Gloss	80 %	80 %	20° per ASTM D523-6

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