

DuPont™ Surlyn® 8320 Ionomer Resin, Sodium

Category : Polymer , Thermoplastic , Ionomer , Ionomer, Molded

Material Notes:

Surlyn® 8320 thermoplastic resin is an advanced ethylene/methacrylic acid (E/MAA) copolymer, in which the MAA acid groups have been partially neutralized with sodium ions. This very low modulus sodium grade has low hardness and very low stiffness. Increased flexibility is achieved by incorporating a third co-monomer into the resin during polymerization. It is used alone or in combination with other ionomer resins or other polymers as a way to tailor flexibility for specific applications. In golf ball covers, for example, it provides a softer feel and imparts greater spin when the ball is in contact with the club face. Surlyn® 8320 is normally processed in a polymer blend by injection molding. Data provided by the manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Surlyn-8320-Ionomer-Resin-Sodium.php

Physical Properties	Metric	English	Comments
Density	0.950 g/cc	0.0343 lb/in ³	ASTM D792
Melt Flow	1.0 g/10 min @Load 2.16 kg, Temperature 190 °C	1.0 g/10 min @Load 4.76 lb, Temperature 374 °F	condition E; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	36	36	ASTM D2240
Tensile Strength, Ultimate	18.6 MPa	2700 psi	ASTM D638
Tensile Strength, Yield	3.10 MPa	450 psi	50 mm/min cross speed, ASTM D638
Elongation at Break	555 %	555 %	ASTM D638
Flexural Modulus	0.0303 GPa	4.39 ksi	ASTM D790
Izod Impact, Notched	NB	NB	ASTM D256
Tensile Impact Strength	450 kJ/m ²	214 ft-lb/in ²	ASTM D1822S
Abrasion	61	61	NBS Index; ASTM D1630

Thermal Properties	Metric	English	Comments
Melting Point	70.0 °C	158 °F	DSC
Vicat Softening Point	47.0 °C	117 °F	Rate B, ASTM D1525-70

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