

**DuPont™ Surlyn® 8120 Ionomer Resin, Sodium (discontinued \*\*)**

Category : Polymer , Thermoplastic , Ionomer , Ionomer, Molded

**Material Notes:**

Surlyn® 8120 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 higher hardness and stiffness compared with other sodium ionomer grades. In golf ball covers, the resin is used primarily in blends with other grades to improve cut resistance and impact durability, as well as increased resilience and coefficient of restitution. The resin also offers high clarity and good abrasion resistance. It can be injection or blow molded, and is processable by extrusion into sheets or shapes. Data provided by the manufacturer.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_DuPont-Surlyn-8120-Ionomer-Resin-Sodium-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_DuPont-Surlyn-8120-Ionomer-Resin-Sodium-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Density	0.940 g/cc	0.0340 lb/in <sup>3</sup>	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	39	39	ASTM D2240
Tensile Strength, Ultimate	28.8 MPa	4180 psi	ASTM D638
Tensile Strength, Yield	4.50 MPa	653 psi	50 mm/min cross speed; ASTM D638
Elongation at Break	660 %	660 %	ASTM D638
Flexural Modulus	0.0490 GPa	7.11 ksi	ASTM D790
Izod Impact, Notched	NB	NB	ASTM D256
Tensile Impact Strength	490 kJ/m <sup>2</sup>	233 ft-lb/in <sup>2</sup>	ASTM D1822S

Thermal Properties	Metric	English	Comments
Melting Point	78.0 °C	172 °F	DSC
Vicat Softening Point	51.0 °C	124 °F	Rate B, ASTM D1525-70

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