

**DuPont™ Surlyn® 8140 Ionomer Resin, Sodium**

Category : Polymer , Thermoplastic , Ionomer , Ionomer, Molded

**Material Notes:**

Surlyn® 8140 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 of Surlyn®. The resin is ideal where high stiffness, high clarity and good abrasion resistance are desired. In golf ball covers, the resin provides good cut resistance, impact durability, high resilience and increased coefficient of restitution, particularly when used in blends with other cations. The resin is normally injection molded. Data provided by the manufacturer.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_DuPont-Surlyn-8140-Ionomer-Resin-Sodium.php](http://www.lookpolymers.com/polymer_DuPont-Surlyn-8140-Ionomer-Resin-Sodium.php)

Physical Properties	Metric	English	Comments
Density	0.960 g/cc	0.0347 lb/in <sup>3</sup>	ASTM D792
Melt Flow	2.6 g/10 min @Load 2.16 kg, Temperature 190 °C	2.6 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	37.0 MPa	5370 psi	ASTM D638
Tensile Strength, Yield	20.0 MPa	2900 psi	50 mm/min cross speed; ASTM D638
Elongation at Break	325 %	325 %	ASTM D638
Flexural Modulus	0.490 GPa	71.1 ksi	ASTM D790
Abrasion	426	426	NBS Index; ASTM D1630

Thermal Properties	Metric	English	Comments
Melting Point	87.0 °C	189 °F	DSC
Vicat Softening Point	58.0 °C	136 °F	Rate B, ASTM D1525-70

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