

## DuPont™ Surlyn® 1802 Sodium Ionomer Resin for Blown/Cast Film and Extrusion Coating

Category : Polymer , Film , Thermoplastic , Ionomer , Ionomer, Film Grade

### Material Notes:

Surlyn® 1802 is an ionomer resin available for use in conventional blown and cast film extrusion and coextrusion equipment and extrusion coating and coextrusion coating equipment designed to process polyethylene resins. Applications: Meat, poultry, seafood and cheese packaging; Cereal liners; Medical/pharmaceutical packaging; Powdered/granular food and nonfood pouches; Carded display/skin packaging films; Edible oil, motor oil, and other liquid product pouches; Snack structures  
Data provided by the manufacturer, DuPont Packaging.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_DuPont-Surlyn-1802-Sodium-Ionomer-Resin-for-BlownCast-Film-and-Extrusion-Coating.php](http://www.lookpolymers.com/polymer_DuPont-Surlyn-1802-Sodium-Ionomer-Resin-for-BlownCast-Film-and-Extrusion-Coating.php)

Physical Properties	Metric	English	Comments
Density	0.940 g/cc	0.0340 lb/in <sup>3</sup>	Estimated by MatWeb
Melt Flow	4.3 g/10 min @Load 2.16 kg, Temperature 190 °C	4.3 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	350 %	350 %	ASTM D882
Film Elongation at Break, TD	400 %	400 %	ASTM D882
Secant Modulus, MD	0.210 GPa	30.5 ksi	ASTM D882
Secant Modulus, TD	0.0450 GPa	6.53 ksi	ASTM D882
Impact	270	270	Spencer Impact in J/cm; ASTM D3420
Elmendorf Tear Strength, MD	1.70 g/micron	43.2 g/mil	
Elmendorf Tear Strength, TD	1.60 g/micron	40.6 g/mil	
Dart Drop	7.90 g/micron	201 g/mil	ASTM D1709B
Seal Strength	<= 2600 g/25 mm	<= 2600 g/in	Varies with seal bar temp.
Hot Tack Strength	<= 2300 g/25 mm	<= 2300 g/in	Varies with seal bar temp.; Packforsk Method
Film Tensile Strength at Break, MD	28.3 MPa	4100 psi	ASTM D882
Film Tensile Strength at Break, TD	33.1 MPa	4800 psi	ASTM D882

Thermal Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments <b>D3418</b>
Vicat Softening Point	75.0 °C	167 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	2.0 %	2.0 %	ASTM D1003
Gloss	95 %	95 %	20°; ASTM D2457

Processing Properties	Metric	English	Comments
Melt Temperature	177 °C	351 °F	

## Contact Songhan Plastic Technology Co.,Ltd.

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