

DuPont™ Surlyn® 1901 Sodium Ionomer Resin for Blown and Cast Film

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

Material Notes:

Surlyn® 1901 is a sodium ionomer resin available for use in conventional blown and cast film extrusion and coextrusion equipment designed to process polyethylene resins. Applications: Meat, poultry, seafood and cheese packaging; Coextrusions with nylon or in other film structures as a heat seal. Data provided by the manufacturer, DuPont Packaging.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Surlyn-1901-Sodium-Ionomer-Resin-for-Blown-and-Cast-Film.php

Physical Properties	Metric	English	Comments
Density	0.940 g/cc	0.0340 lb/in ³	ASTM D792
Melt Flow	1.3 g/10 min @Load 2.16 kg, Temperature 190 °C	1.3 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	460 %	460 %	ASTM D882
Film Elongation at Break, TD	450 %	450 %	ASTM D882
Secant Modulus, MD	0.160 GPa	23.2 ksi	ASTM D882
Secant Modulus, TD	0.0450 GPa	6.53 ksi	ASTM D882
Impact	410	410	Spencer Impact in J/cm; ASTM D3420
Elmendorf Tear Strength, MD	1.10 g/micron	27.9 g/mil	
Elmendorf Tear Strength, TD	1.40 g/micron	35.6 g/mil	
Dart Drop	22.1 g/micron	561 g/mil	ASTM D1709B
Seal Strength	<= 3400 g/25 mm	<= 3400 g/in	Varies with seal bar temp.
Hot Tack Strength	<= 3000 g/25 mm	<= 3000 g/in	Varies with seal bar temp.; Packforsk Method
Film Tensile Strength at Break, MD	41.0 MPa	5950 psi	ASTM D882
Film Tensile Strength at Break, TD	35.0 MPa	5080 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Melting Point	95.0 °C	203 °F	DSC; ASTM D3418
Vicat Softening Point	70.0 °C	158 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	2.0 %	2.0 %	ASTM D1003
Gloss	100 %	100 %	20°; ASTM D2457

Processing Properties	Metric	English	Comments
Melt Temperature	191 °C	376 °F	

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