

DuPont™ Surlyn® 1601B Sodium Ionomer Resin for Blown and Cast Film (discontinued **)

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

Material Notes:

Surlyn® 1601B is an 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; 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-1601B-Sodium-Ionomer-Resin-for-Blown-and-Cast-Film-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	0.940 g/cc	0.0340 lb/in ³	Estimated by MatWeb
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	350 %	350 %	ASTM D882
Film Elongation at Break, TD	400 %	400 %	ASTM D882
Secant Modulus, MD	0.260 GPa	37.7 ksi	ASTM D882
Secant Modulus, TD	0.0450 GPa	6.53 ksi	ASTM D882
Impact	240	240	Spencer Impact in J/cm; ASTM D3420
Elmendorf Tear Strength, MD	0.900 g/micron	22.9 g/mil	
Elmendorf Tear Strength, TD	1.00 g/micron	25.4 g/mil	
Dart Drop	9.80 g/micron	249 g/mil	ASTM D1709B
Seal Strength	2600 g/25 mm	2600 g/in	Seal Bar Temp approx. 135-145°C
Hot Tack Strength	2100 g/25 mm	2100 g/in	Seal Bar Temp approx. 120-140°C; Packforsk Method
Film Tensile Strength at Break, MD	29.6 MPa	4290 psi	ASTM D882
Film Tensile Strength at Break, TD	29.6 MPa	4290 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Melting Point	98.0 °C	208 °F	DSC; ASTM D3418

Thermal Properties	Metric	English	Comments
Vicat Softening Point	74.0 °C	165 °F	ASTM D1525

Optical Properties	Metric	English	Comments
Haze	4.0 %	4.0 %	ASTM D1003
Gloss	65 %	65 %	20°; ASTM D2457

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

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