

DuPont™ Surlyn® 1857 Zinc Ionomer Resin for Blown and Cast Film

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

Material Notes:

Surlyn® 1857 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; Edible oil, motor oil, and other liquid product pouches; Snack structuresData provided by the manufacturer, DuPont Packaging.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Surlyn-1857-Zinc-Ionomer-Resin-for-Blown-and-Cast-Film.php

Physical Properties	Metric	English	Comments
Density	0.940 g/cc	0.0340 lb/in³	ASTM D792
Melt Flow	4.0 g/10 min @Load 2.16 kg, Temperature 190 °C	4.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	500 %	500 %	ASTM D882
Film Elongation at Break, TD	450 %	450 %	ASTM D882
Secant Modulus, MD	0.0500 GPa	7.25 ksi	ASTM D882
Secant Modulus, TD	0.0450 GPa	6.53 ksi	ASTM D882
Impact	310	310	Spencer Impact in J/cm; ASTM D3420
Elmendorf Tear Strength, MD	8.30 g/micron	211 g/mil	
Elmendorf Tear Strength, TD	11.0 g/micron	279 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	<= 2000 g/25 mm	<= 2000 g/in	Varies with seal bar temp.; Packforsk Method
Film Tensile Strength at Break, MD	31.0 MPa	4500 psi	ASTM D882
Film Tensile Strength at Break, TD	32.4 MPa	4700 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Melting Point	87.0 °C	189 °F	DSC; ASTM D3418

Vicat Softening Point Thermal Properties	56.0 °C Metric	133 °F English	ASTM D1525 Comments
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Optical Properties	Metric	English	Comments
Haze	7.0 %	7.0 %	ASTM D1003
Gloss	20 %	20 %	20°; ASTM D2457

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

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