

DuPont™ Surlyn® 1705-1 Zinc Ionomer Resin for Blown and Cast Film

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

Material Notes:

Surlyn® 1705-1 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-1705-1-Zinc-Ionomer-Resin-for-Blown-and-Cast-Film.php

Physical Properties	Metric	English	Comments
Density	0.950 g/cc	0.0343 lb/in ³	ASTM D792
Melt Flow	5.5 g/10 min @Load 2.16 kg, Temperature 190 °C	5.5 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	0.240 GPa	34.8 ksi	ASTM D882
Secant Modulus, TD	0.0450 GPa	6.53 ksi	ASTM D882
Impact	220	220	Spencer Impact in J/cm; ASTM D3420
Elmendorf Tear Strength, MD	2.90 g/micron	73.7 g/mil	
Elmendorf Tear Strength, TD	3.30 g/micron	83.8 g/mil	
Dart Drop	7.10 g/micron	180 g/mil	ASTM D1709B
Seal Strength	<= 2600 g/25 mm	<= 2600 g/in	Varies with seal bar temp.
Hot Tack Strength	<= 2200 g/25 mm	<= 2200 g/in	Varies with seal bar temp.; Packforsk Method
Film Tensile Strength at Break, MD	37.0 MPa	5370 psi	ASTM D882
Film Tensile Strength at Break, TD	36.0 MPa	5220 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Melting Point	95.0 °C	203 °F	DSC; ASTM D3418

Vicat Softening Point Thermal Properties	65.0 °C Metric	149 °F English	ASTM D1525 Comments
Optical Properties	Metric	English	Comments
Haze	3.0 %	3.0 %	ASTM D1003
Gloss	20 %	20 %	20°; ASTM D2457
Processing Properties	Metric	English	Comments
Melt Temperature	177 °C	351 °F	

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