

DuPont™ Surlyn® 1855 Zinc Ionomer Resin for Blown and Cast Film (discontinued **)

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

Material Notes:

Surlyn® 1855 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 structures Data provided by the manufacturer, DuPont Packaging.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Surlyn-1855-Zinc-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 | 0.90 g/10 min @Load 2.16 kg, Temperature 190 °C | 0.90 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 | 350 % | 350 % | 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 | 360 | 360 | Spencer Impact in J/cm; ASTM D3420 |
| Elmendorf Tear Strength, MD | 0.700 g/micron | 17.8 g/mil | |
| Elmendorf Tear Strength, TD | 1.00 g/micron | 25.4 g/mil | |
| Dart Drop | 13.8 g/micron | 351 g/mil | ASTM D1709B |
| Seal Strength | <= 2800 g/25 mm | <= 2800 g/in | Varies with seal bar temp. |
| Hot Tack Strength | <= 2600 g/25 mm | <= 2600 g/in | Varies with seal bar temp.; Packforsk Method |
| Film Tensile Strength at Break, MD | 36.5 MPa | 5290 psi | ASTM D882 |
| Film Tensile Strength at Break, TD | 35.9 MPa | 5210 psi | ASTM D882 |

| Thermal Properties | Metric | English | Comments |
|--------------------|---------|---------|-----------------|
| Melting Point | 88.0 °C | 190 °F | DSC; ASTM D3418 |

| Thermal Properties | Metric | English | Comments |
|-----------------------|---------|---------|------------|
| Vicat Softening Point | 62.0 °C | 144 °F | ASTM D1525 |

| Optical Properties | Metric | English | Comments |
|--------------------|--------|---------|-----------------|
| Haze | 4.5 % | 4.5 % | ASTM D1003 |
| Gloss | 45 % | 45 % | 20°; ASTM D2457 |

| Processing Properties | Metric | English | Comments |
|-----------------------|--------|---------|----------|
| Melt Temperature | 204 °C | 399 °F | |

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