

## DuPont™ Surlyn® 1652SB Zinc Ionomer Resin for Blown/Cast Film and Extrusion Coating

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

### Material Notes:

Surlyn® 1652SB is an ionomer resin available for use in blown/cast film and extrusion coating operations. It can be used in both 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-1652SB-Zinc-Ionomer-Resin-for-BlownCast-Film-and-Extrusion-Coating.php](http://www.lookpolymers.com/polymer_DuPont-Surlyn-1652SB-Zinc-Ionomer-Resin-for-BlownCast-Film-and-Extrusion-Coating.php)

| Physical Properties | Metric                               | English                              | Comments   |
|---------------------|--------------------------------------|--------------------------------------|------------|
| Density             | 0.940 g/cc                           | 0.0340 lb/in³                        | ASTM D792  |
| Melt Flow           | 4.6 g/10 min                         | 4.6 g/10 min                         | ASTM D1238 |
|                     | @Load 2.16 kg,<br>Temperature 190 °C | @Load 4.76 lb,<br>Temperature 374 °F |            |

| Mechanical Properties              | Metric          | English      | Comments                                     |
|------------------------------------|-----------------|--------------|----------------------------------------------|
| Film Elongation at Break, MD       | 400 %           | 400 %        | ASTM D882                                    |
| Film Elongation at Break, TD       | 400 %           | 400 %        | ASTM D882                                    |
| Secant Modulus, MD                 | 0.170 GPa       | 24.7 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        | 3.50 g/micron   | 88.9 g/mil   |                                              |
| Elmendorf Tear Strength, TD        | 3.50 g/micron   | 88.9 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                  | <= 1800 g/25 mm | <= 1800 g/in | Varies with seal bar temp.; Packforsk Method |
| Film Tensile Strength at Break, MD | 26.9 MPa        | 3900 psi     | ASTM D882                                    |
| Film Tensile Strength at Break, TD | 28.3 MPa        | 4100 psi     | ASTM D882                                    |

| Thermal Properties | Metric | English | Comments        |
|--------------------|--------|---------|-----------------|
| Melting Point      | 101 °C | 214 °F  | DSC; ASTM D3418 |

| Thermal Properties    | Metric  | English | Comments   |
|-----------------------|---------|---------|------------|
| Vicat Softening Point | 19.0 °C | 174 °F  | ASTM D1525 |

| Optical Properties | Metric | English | Comments        |
|--------------------|--------|---------|-----------------|
| Haze               | 11.5 % | 11.5 %  | ASTM D1003      |
| Gloss              | 25 %   | 25 %    | 20°; ASTM D2457 |

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

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