

DuPont™ Surlyn® 8150 Ionomer Resin, Sodium

Category : Polymer , Thermoplastic , Ionomer , Ionomer, Molded

Material Notes:

Surlyn® 8150 thermoplastic resin is an advanced ethylene/methacrylic acid (E/MAA) copolymer, in which the MAA acid groups have been partially neutralized with sodium ions. The high MAA content and mid-range neutralization level for this grade creates an exceptional combination of strengths: toughness, low-temperature toughness, abrasion resistance, tear resistance, excellent clarity, and high stiffness compared with other grades of Surlyn®. The resin is highly suitable for injection molding, providing enhanced processability over other grades. Data provided by the manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Surlyn-8150-Ionomer-Resin-Sodium.php

| Physical Properties | Metric | English | Comments |
|---------------------|--|--|-------------------------|
| Density | 0.970 g/cc | 0.0350 lb/in ³ | ASTM D792 |
| Melt Flow | 4.5 g/10 min @Load 2.16 kg, Temperature 190 °C | 4.5 g/10 min @Load 4.76 lb, Temperature 374 °F | condition E; ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|------------|-----------|----------------------------------|
| Hardness, Shore D | 65 | 65 | ASTM D2240 |
| Tensile Strength, Ultimate | 31.0 MPa | 4500 psi | ASTM D638 |
| Tensile Strength, Yield | 18.6 MPa | 2700 psi | 50 mm/min cross speed; ASTM D638 |
| Elongation at Break | 320 % | 320 % | ASTM D638 |
| Flexural Modulus | 0.4895 GPa | 71.00 ksi | ASTM D790 |
| Abrasion | 301 | 301 | NBS Index; ASTM D1630 |

| Thermal Properties | Metric | English | Comments |
|-----------------------|---------|---------|-----------------------|
| Melting Point | 84.0 °C | 183 °F | DSC |
| Vicat Softening Point | 53.0 °C | 127 °F | Rate B, ASTM D1525-70 |

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