

NOVA Chemicals Sclair® FG220-A Octene LLDPE Film Resin

Category : Polymer , Film , Thermoplastic , Polyethylene (PE) , LLDPE , Linear Low Density Polyethylene (LLDPE), Film Grade

Material Notes:

Features: Exceptional toughness Low gel level Applications: Cast stretch wrap Netting Co-extrusion and lamination Information provided by Nova Chemicals

Order this product through the following link:

http://www.lookpolymers.com/polymer_NOVA-Chemicals-Sclair-FG220-A-Octene-LLDPE-Film-Resin.php

| Physical Properties | Metric | English | Comments |
|---------------------|--|--|------------|
| Density | 0.920 g/cc | 0.0332 lb/in ³ | ASTM D792 |
| Thickness | 20.0 microns | 0.787 mil | |
| Melt Flow | 2.3 g/10 min @Load 2.16 kg, Temperature 190 °C | 2.3 g/10 min @Load 4.76 lb, Temperature 374 °F | ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|------------------------------------|-----------|------------|-----------------------|
| Film Tensile Strength at Yield, MD | 8.89 MPa | 1290 psi | ASTM D882 |
| Film Tensile Strength at Yield, TD | 8.41 MPa | 1220 psi | ASTM D882 |
| Film Elongation at Yield, MD | 435 % | 435 % | ASTM D638 |
| Film Elongation at Yield, TD | 760 % | 760 % | ASTM D882 |
| Puncture Energy | 1.60 J | 1.18 ft-lb | Low Friction Puncture |
| Elmendorf Tear Strength MD | 290 g | 290 g | ASTM D1922 |
| Elmendorf Tear Strength TD | 650 g | 650 g | ASTM D1922 |
| Dart Drop Test | 190 g | 0.419 lb | ASTM D1709/A |
| Film Tensile Strength at Break, MD | 33.0 MPa | 4790 psi | ASTM D882 |
| Film Tensile Strength at Break, TD | 25.0 MPa | 3630 psi | ASTM D882 |
| 1% Secant Modulus, MD | 140.0 MPa | 20310 psi | ASTM D882 |
| 1% Secant Modulus, TD | 160.0 MPa | 23210 psi | ASTM D882 |

| Optical Properties | Metric | English | Comments |
|--------------------|--------|---------|--------------------|
| Haze | 2.0 % | 2.0 % | ASTM D1003 |
| Gloss | 85 % | 85 % | at 45°; ASTM D2457 |

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