

SCG Chemicals EL-Leneâ,,ç F15 High Density Polyethylene Film

Category : Polymer , Film , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Film Grade

Material Notes:

Key Characteristics:High productivityHigh tensile strengthHigh dart impactHigh stiffnessLow gel contentGood moisture barrierExcellent printabilityRecommended Applications:High speed processingWide lay flat film (>25") for shopping bag, T-shirt bag, garbage bag, liner bagInformation provided by SCG Chemicals

Order this product through the following link:

http://www.lookpolymers.com/polymer_SCG-Chemicals-EL-Lene-F15-High-Density-Polyethylene-Film.php

| Physical Properties | Metric | English | Comments |
|---------------------------------------|---|---|-----------------------------|
| Specific Gravity | 0.954 g/cc | 0.954 g/cc | ASTM D1505 |
| Environmental Stress Crack Resistance | >= 1000 hour @Temperature 50.0 Å°C | >= 1000 hour @Temperature 122 Å°F | F50, 25% Igepal; ASTM D1693 |
| Thickness | 12.0 microns | 0.472 mil | |
| Melt Flow | 0.060 g/10 min @Load 2.16 kg, Temperature 190 Å°C | 0.060 g/10 min @Load 4.76 lb, Temperature 374 Å°F | ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|------------------------------------|----------------|-------------|------------|
| Film Tensile Strength at Yield, TD | 31.0 MPa | 4500 psi | ASTM D882 |
| Film Elongation at Break, MD | 350 % | 350 % | ASTM D882 |
| Film Elongation at Break, TD | 530 % | 530 % | ASTM D882 |
| Secant Modulus, MD | 0.0300 GPa | 4.35 ksi | ASTM D882 |
| Secant Modulus, TD | 0.0500 GPa | 7.25 ksi | ASTM D882 |
| Elmendorf Tear Strength MD | 3.0 g | 3.0 g | ASTM D1922 |
| Elmendorf Tear Strength TD | 135 g | 135 g | ASTM D1922 |
| Elmendorf Tear Strength, MD | 0.250 g/micron | 6.35 g/mil | ASTM D1922 |
| Elmendorf Tear Strength, TD | 11.25 g/micron | 285.8 g/mil | ASTM D1922 |
| Dart Drop | 11.8 g/micron | 300 g/mil | ASTM D1709 |
| Dart Drop Test | 142 g | 0.313 lb | ASTM D1709 |
| Film Tensile Strength at Break, MD | 89.0 MPa | 12900 psi | ASTM D882 |

| Film Tensile Strength at Break, TD Mechanical Properties | 37.0 MPa Metric | 5370 psi English | ASTM D882 Comments |
|---|--------------------|---------------------|-----------------------|
| Thermal Properties | Metric | English | Comments |
| Melting Point | 130 Â°C | 266 Â°F | ASTM D2117 |
| Vicat Softening Point | 123 Â°C | 253 Â°F | ASTM D1525 |
| Brittleness Temperature | <= -60.0 Â°C | <= -76.0 Â°F | ASTM D746 |

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