

SCG Chemicals EL-Leneâ„¢ L1810F Linear Low Density Polyethylene Film

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

Material Notes:

Key Characteristics: High productivity Good optical properties Contains 1600 ppm slip agent and 1900 ppm antiblocking agent Recommended Applications: Film for heavy duty bag, industrial bag, rice bag, sugar bag, frozen bag Agricultural film Construction film Information provided by SCG Chemicals

Order this product through the following link:

http://www.lookpolymers.com/polymer_SCG-Chemicals-EL-Lene-L1810F-Linear-Low-Density-Polyethylene-Film.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.919 g/cc	0.919 g/cc	ASTM D1505
Environmental Stress Crack Resistance	>= 1000 hour @Temperature 50.0 Â°C	>= 1000 hour @Temperature 122 Â°F	F50, 25% Igepal; ASTM D1639
Thickness	38.0 microns	1.50 mil	
Melt Flow	1.0 g/10 min @Load 2.16 kg, Temperature 190 Â°C	1.0 g/10 min @Load 4.76 lb, Temperature 374 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	14.0 MPa	2030 psi	ASTM D882
Film Tensile Strength at Yield, TD	10.0 MPa	1450 psi	ASTM D882
Film Elongation at Break, MD	1050 %	1050 %	ASTM D882
Film Elongation at Break, TD	810 %	810 %	ASTM D882
Secant Modulus, MD	0.260 GPa	37.7 ksi	ASTM D882
Secant Modulus, TD	0.270 GPa	39.2 ksi	ASTM D882
Elmendorf Tear Strength, MD	5.71 g/micron	145 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	14.6 g/micron	370 g/mil	ASTM D1922
Dart Drop	3.40 g/micron	86.4 g/mil	ASTM D1709
Dart Drop Test	130 g	0.287 lb	ASTM D1709
Film Tensile Strength at Break, MD	46.0 MPa	6670 psi	ASTM D882
Film Tensile Strength at Break, TD	17.0 MPa	2470 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Melting Point	122 Â°C	252 Â°F	ASTM D2117
Vicat Softening Point	102 Â°C	216 Â°F	ASTM D1525
Brittleness Temperature	<= -70.0 Â°C	<= -94.0 Â°F	ASTM D746

Optical Properties	Metric	English	Comments
Haze	18 %	18 %	ASTM D1003
Gloss	51 %	51 %	ASTM D2457

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