

SCG Chemicals EL-Leneâ„¢ L2020F Linear Low Density Polyethylene Film

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

Material Notes:

Key Characteristics: High output and elongation Contains 1800 ppm slip agent and 1400 ppm antiblocking agent Recommended

Applications: General purpose bag, cast film, small bag, merchandise bag, printed bag Information provided by SCG Chemicals

Order this product through the following link:

http://www.lookpolymers.com/polymer_SCG-Chemicals-EL-Lene-L2020F-Linear-Low-Density-Polyethylene-Film.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.920 g/cc	0.920 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	2.0 g/10 min @Load 2.16 kg, Temperature 190 Â°C	2.0 g/10 min @Load 4.76 lb, Temperature 374 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	11.0 MPa	1600 psi	ASTM D882
Film Tensile Strength at Yield, TD	8.00 MPa	1160 psi	ASTM D882
Film Elongation at Break, MD	855 %	855 %	ASTM D882
Film Elongation at Break, TD	790 %	790 %	ASTM D882
Secant Modulus, MD	0.200 GPa	29.0 ksi	ASTM D882
Secant Modulus, TD	0.190 GPa	27.6 ksi	ASTM D882
Elmendorf Tear Strength, MD	4.92 g/micron	125 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	14.6 g/micron	370 g/mil	ASTM D1922
Dart Drop	2.40 g/micron	61.0 g/mil	ASTM D1709
Dart Drop Test	90.0 g	0.198 lb	ASTM D1709
Film Tensile Strength at Break, MD	22.0 MPa	3190 psi	ASTM D882
Film Tensile Strength at Break, TD	13.0 MPa	1890 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Melting Point	122 Â°C	252 Â°F	ASTM D2117
Vicat Softening Point	99.0 Â°C	210 Â°F	ASTM D1525
Brittleness Temperature	<= -70.0 Â°C	<= -94.0 Â°F	ASTM D746

Optical Properties	Metric	English	Comments
Haze	13 %	13 %	ASTM D1003
Gloss	50 %	50 %	ASTM D2457

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