

SCG Chemicals EL-Leneâ,,ç H5604F High Density Polyethylene Film

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

Material Notes:

Key Characteristics:High tensile strengthHigh dart impactHigh stiffnessLow gel contentGood moisture barrierRecommended Applications:

Films 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-H5604F-High-Density-Polyethylene-Film.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.956 g/cc	0.956 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	0.040 g/10 min @Load 2.16 kg, Temperature 190 Å°C	0.040 g/10 min @Load 4.76 lb, Temperature 374 Å°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, TD	25.0 MPa	3630 psi	ASTM D882
Film Elongation at Break, MD	240 %	240 %	ASTM D882
Film Elongation at Break, TD	450 %	450 %	ASTM D882
Secant Modulus, MD	0.800 GPa	116 ksi	ASTM D882
Secant Modulus, TD	0.780 GPa	113 ksi	ASTM D882
Elmendorf Tear Strength MD	3.0 g	3.0 g	ASTM D1922
Elmendorf Tear Strength TD	80 g	80 g	ASTM D1922
Elmendorf Tear Strength, MD	0.250 g/micron	6.35 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	6.67 g/micron	169 g/mil	ASTM D1922
Dart Drop	11.6 g/micron	295 g/mil	ASTM D1709
Dart Drop Test	139 g	0.306 lb	ASTM D1709
Film Tensile Strength at Break, MD	61.0 MPa	8850 psi	ASTM D882
Film Tensile Strength at Break, TD	30.0 MPa	4350 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Melting Point	131 Â°C	268 Â°F	ASTM D2117
Vicat Softening Point	124 Â°C	255 Â°F	ASTM D1525
Brittleness Temperature	<= -60.0 Â°C	<= -76.0 Â°F	ASTM D746

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