

SCG Chemicals EL-Leneâ„¢ H5615F High Density Polyethylene Film

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

Material Notes:

Key Characteristics: High speed processing High tensile strength High dart impact Low gel content Good moisture barrier Recommended

Applications: Ultra thin film (

Order this product through the following link:

http://www.lookpolymers.com/polymer_SCG-Chemicals-EL-Lene-H5615F-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 Â°C	>= 1000 hour @Temperature 122 Â°F	F50, 25% Igepal; ASTM D1693
Thickness	12.0 microns	0.472 mil	
Melt Flow	0.15 g/10 min @Load 2.16 kg, Temperature 190 Â°C	0.15 g/10 min @Load 4.76 lb, Temperature 374 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, TD	30.0 MPa	4350 psi	ASTM D882
Film Elongation at Break, MD	160 %	160 %	ASTM D882
Film Elongation at Break, TD	360 %	360 %	ASTM D882
Secant Modulus, MD	0.950 GPa	138 ksi	ASTM D882
Secant Modulus, TD	0.980 GPa	142 ksi	ASTM D882
Elmendorf Tear Strength MD	3.0 g	3.0 g	ASTM D1922
Elmendorf Tear Strength TD	118 g	118 g	ASTM D1922
Elmendorf Tear Strength, MD	0.250 g/micron	6.35 g/mil	ASTM D1922
Elmendorf Tear Strength, TD	9.83 g/micron	250 g/mil	ASTM D1922
Dart Drop	8.90 g/micron	226 g/mil	ASTM D1709
Dart Drop Test	107 g	0.236 lb	ASTM D1709
Film Tensile Strength at Break, MD	45.0 MPa	6530 psi	ASTM D882
Film Tensile Strength at Break, TD	28.0 MPa	4060 psi	ASTM D882

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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