

EL-Lene™ F15

High Density Polyethylene

SCG Chemicals Co., Ltd.

Message:

EL-LENE F15 is a product of bi-modal process from Mitsui Chemicals, Inc. of Japan.

General Information			
Features	Excellent Printability		
	Fast Molding Cycle		
	Food Contact Acceptable		
	High Impact Resistance		
	High Tensile Strength		
	Low Gel		
	Moisture Barrier		
Uses	Bags		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Blown Film		
Physical	Nominal Value	Unit	Test Method
Density	0.954	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.060	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (50°C, 25% Igepal, Compression Molded, F50)	> 1000	hr	ASTM D1693B
Films	Nominal Value	Unit	Test Method
Secant Modulus			ASTM D882
2% Secant, MD : 12 µm	971	MPa	
2% Secant, TD : 12 µm	961	MPa	
Tensile Strength			ASTM D882
TD : Yield, 12 µm	31.4	MPa	
MD : Break, 12 µm	89.2	MPa	
TD : Break, 12 µm	37.3	MPa	
Tensile Elongation			ASTM D882
MD : Break, 12 µm	350	%	
TD : Break, 12 µm	530	%	
Dart Drop Impact (12 µm)	140	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD : 12 µm	3.0	g	
TD : 12 µm	140	g	

Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -60.0	°C	ASTM D746
Vicat Softening Temperature	123	°C	ASTM D1525
Melting Temperature	130	°C	ASTM D2117
Extrusion	Nominal Value	Unit	
Melt Temperature	180 to 200	°C	

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