

EL-Lene™ F15

High Density Polyethylene

SCG Chemicals Co., Ltd.

Technical Data

Product Description

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

General

Material Status	• Commercial: Active		
Literature ¹	• Technical Datasheet (English)		
Availability	• Asia Pacific	• North America	
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

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² Typical properties: these are not to be construed as specifications.