EL-Lene™ H5615F

High Density Polyethylene

SCG Chemicals Co., Ltd.

Technical Data

Product Description			
EL-LENE H5615F 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	
Additive	• Antiblock (2400 ppm)		
Features	• Fast Molding Cycle • Food Contact Acceptable	• High Impact Resistance • High Tensile Strength	• Low Gel • Moisture Barrier
Uses	• Bags	• Film	
Agency Ratings	• FDA 21 CFR 177.1520		
Forms	• Pellets		
Processing Method	• Blown Film		

Physical	Nominal Value	Unit	Test Method
Density	0.956	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.15	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance			ASTM D1693B
50°C, 25% Igepal, Compression Molded, F50	> 1000	hr	
Films	**Nominal Value**	**Unit**	**Test Method**
Secant Modulus			ASTM D882
2% Secant, MD: 12 µm	951	MPa	
2% Secant, TD: 12 µm	981	MPa	
Tensile Strength			ASTM D882
TD: Yield, 12 µm	30.4	MPa	
MD: Break, 12 µm	74.5	MPa	
TD: Break, 12 µm	28.4	MPa	
Tensile Elongation			ASTM D882
MD: Break, 12 µm	160	%	
TD: Break, 12 µm	360	%	
Dart Drop Impact (12 µm)	110	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD: 12 µm	3.0	g	
TD: 12 µm	120	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.