

EL-Lene™ H5604F

High Density Polyethylene

SCG Chemicals Co., Ltd.

Message:

EL-LENE H5604F is a product of bi-modal process from Mitsui Chemicals, Inc. of Japan.

General Information			
Features	Food Contact Acceptable		
	High Impact Resistance		
	High Stiffness		
	Low Gel		
	Moisture Barrier		
Uses	Bags		
	Film		
	General Purpose		
	Heavy-duty Bags		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Blown Film		
Physical	Nominal Value	Unit	Test Method
Density	0.956	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.040	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
Film Thickness - Recommended / Available	10 to 25 μ		
Secant Modulus	ASTM D882		
2% Secant, MD : 12 μm	804	MPa	ASTM D882
2% Secant, TD : 12 μm	785	MPa	
Tensile Strength	ASTM D882		
TD : Yield, 12 μm	24.5	MPa	ASTM D882
MD : Break, 12 μm	60.8	MPa	
TD : Break, 12 μm	30.4	MPa	
Tensile Elongation	ASTM D882		
MD : Break, 12 μm	240	%	ASTM D882
TD : Break, 12 μm	450	%	
Dart Drop Impact (12 μm)	140	g	ASTM D1709

Elmendorf Tear Strength			ASTM D1922
MD : 12 μm	3.0	g	
TD : 12 μm	80	g	
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -60.0	°C	ASTM D746
Vicat Softening Temperature	124	°C	ASTM D1525
Melting Temperature	131	°C	ASTM D2117
Extrusion	Nominal Value	Unit	
Melt Temperature	190 to 210	°C	

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