

EL-Lene™ H511W

High Density Polyethylene

SCG Chemicals Co., Ltd.

Message:

EL-Lene H511W is a high density polyethylene for solid insulation in cable application. It is also suitable for outer skin in "foam skin" constructions. It provides good performance across the full range of tele-communication insulation applications, including aircore and petroleum jelly filled cable designs in both buried and aerial environments.

General Information			
Features	Good Processability		
	High Density		
Uses	Communication Applications		
	Corrugated Pipe		
	Piping		
	Wire & Cable Applications		
Forms	Pellets		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.949	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.90	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (50°C, 10% Igepal, F0)	> 168	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	62		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹			ASTM D638
Yield	23.0	MPa	
Break	34.0	MPa	
Tensile Elongation ² (Break)	> 600	%	ASTM D638
Flexural Modulus	> 800	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	140	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -75.0	°C	ASTM D746
Oxidation Induction Time (200°C)	> 100	min	ASTM D3895
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms · cm	ASTM D257
Dielectric Strength	20	kV/mm	ASTM D149

Dielectric Constant (1 MHz)	2.32	ASTM D1531
Dissipation Factor (1 MHz)	6.0E-5	ASTM D1531
Extrusion	Nominal Value	Unit
Melt Temperature	220 to 280	°C
NOTE		
1.	50 mm/min	
2.	50 mm/min	

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