

EL-Lene™ H2001WC

High Density Polyethylene

SCG Chemicals Co., Ltd.

Message:

EL-Lene H2001WC is a black bimodal high density polyethylene compound for jacketing in fiber optic and power cable applications. It contains well-dispersed carbon black of nominal particle size less than 20 nanometer to provide excellent weathering resistance and UV resistance.

General Information			
Additive	Carbon black (3%)		
Features	High ESCR (Stress Cracking Resistance)		
	High density		
	Good UV resistance		
	Good weather resistance		
Uses	Industrial Cable Jacketing		
	Electronic cable sheath material		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Density			ASTM D1505
-- ¹	0.952	g/cm ³	ASTM D1505
-- ²	0.963	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.13	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (50°C, 25% Igepal, Molded, F0)	> 10000	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	63		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ³			ASTM D638
Yield	24.0	MPa	ASTM D638
Fracture	34.0	MPa	ASTM D638
Tensile Elongation ⁴ (Break)	840	%	ASTM D638
Flexural Modulus	1000	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	210	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -75.0	°C	ASTM D746
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)	2.56		ASTM D150
Dissipation Factor (1 MHz)	5.0E-3		ASTM D1531

Additional Information

Carbon Black Content, ASTM D1603:2.5% wtOxidation Induction time, ISO/TR10837, 200°C: > 70 min

Extrusion	Nominal Value	Unit
Drying Temperature	80.0 - 95.0	°C
Drying Time	1.0 - 2.0	hr
Melt Temperature	190 - 220	°C

NOTE

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|----|------------|
| 1. | Base Resin |
| 2. | Compound |
| 3. | 50 mm/min |
| 4. | 50 mm/min |

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