

EL-Lene™ H1000PC

High Density Polyethylene

SCG Chemicals Co., Ltd.

Message:

EL-Lene H1000PC is a black, bimodal technology, high density polyethylene compound classified as a MRS 10.0 material (PE100) providing superior in mechanical properties and processability. EL-Lene H1000PC also shows excellent resistance to rapid crack propagation and slow crack growth. In addition, It includes a good dispersion of carbon black pigment and anti-oxidant to ensure excellent long term in UV resistance and thermal stability.

General Information	
Additive	Antioxidant Carbon Black (2%) UV Stabilizer
Features	Antioxidant Good Crack Resistance Good Processability Good Thermal Stability Good UV Resistance
Uses	Corrugated Pipe Industrial Applications Piping
Agency Ratings	PPI PE-100 PPI PE-3408
Appearance	Black
Forms	Pellets
Processing Method	Extrusion Pipe Extrusion

Physical	Nominal Value	Unit	Test Method
Density	0.959	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	0.25	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance (F0)	> 10000	hr	ASTM D1693
Carbon Black Content	2.3	%	ISO 6964
Carbon Black Dispersion	< 3		ISO 18553
Resistance to Slow Crack Growth (80°C)	> 500	hr	ISO 13479
Oxidation Induction Time (200°C)	> 60	min	EN 728
Rapid Crack Propagation	> 1.00	MPa	ISO 13477

Resistance to Gas Components	> 20.0	hr	ISO 1167
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	64		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2/100
Yield	23.0	MPa	
Break	> 30.0	MPa	
Tensile Strain (Break)	> 600	%	ISO 527-2/100
Flexural Modulus	1000	MPa	ASTM D790
Extrusion	Nominal Value	Unit	
Drying Temperature	80.0 to 90.0	°C	
Drying Time	1.0 to 2.0	hr	
Melt Temperature	200 to 220	°C	

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Recommended distributors for this material

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