

EL-Lene™ H1000PBL

High Density Polyethylene

SCG Chemicals Co., Ltd.

Message:

EL-Lene H1000PBL is a blue, bimodal, high density polyethylene compound that is specially designed for water pressure pipe, especially for drinking water pipes. EL-Lene H1000PBL is designed as PE100 pipes providing excellent in mechanical properties, and processability. Well dispersed UV stabilizer and anti-oxidant which also provide outstanding UV resistance and high thermal stability for long term using.

General Information			
Additive	Antioxidant UV Stabilizer		
Features	Antioxidant Good Processability Good Strength Good Thermal Stability Good UV Resistance		
Uses	Piping		
Appearance	Blue		
Forms	Pellets		
Processing Method	Extrusion Pipe Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.951	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	0.28	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance (F0)	> 10000	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	66		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2/100
Yield	23.0	MPa	
Break	36.0	MPa	
Tensile Strain (Break)	850	%	ISO 527-2/100
Flexural Modulus	1000	MPa	ASTM D790
Resistance to Slow Crack Growth (80°C)	> 1000	hr	ISO 13479
Oxidation Induction Time (200°C)	> 50	min	ISO 10837
Minimum Required Strength	10.0	MPa	ISO 9080
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact			ASTM D256
-20°C	200	J/m	
0°C	260	J/m	
23°C	300	J/m	
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -60.0	°C	ASTM D746
Vicat Softening Temperature	122	°C	ASTM D1525
Extrusion	Nominal Value	Unit	
Melt Temperature	200 to 220	°C	

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