

## SCG Chemicals EL-Leneâ,,ç H1000PBL High Density Polyethylene Pipe Resin

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Pipe Grade

### Material Notes:

Key Characteristics: Good processing, high thermal stability, good resistance to weathering, good balance of MRS and SCG Recommended

Applications: Water pressure pipes and stripe lines for PE100 pipe Certification: Certified by EXOVA, LNE Information provided by SCG Chemicals

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SCG-Chemicals-EL-Lene-H1000PBL-High-Density-Polyethylene-Pipe-Resin.php](http://www.lookpolymers.com/polymer_SCG-Chemicals-EL-Lene-H1000PBL-High-Density-Polyethylene-Pipe-Resin.php)

Physical Properties	Metric	English	Comments
Specific Gravity	0.951 g/cc	0.951 g/cc	ISO 1183
Environmental Stress Crack Resistance	>= 10000 hour	>= 10000 hour	F0; ASTM D1693
Oxidative Induction Time (OIT)	>= 70 min @Temperature 200 Â°C	>= 70 min @Temperature 392 Â°F	ISO/TR10837
Melt Flow	0.28 g/10 min @Load 5.00 kg, Temperature 190 Â°C	0.28 g/10 min @Load 11.0 lb, Temperature 374 Â°F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	66	66	ASTM D2240
Tensile Strength at Break	36.0 MPa	5220 psi	Crosshead speed 100 mm/min; ISO 527
Tensile Strength, Yield	23.0 MPa	3340 psi	Crosshead speed 100 mm/min; ISO 527
Elongation at Break	850 %	850 %	Crosshead speed 100 mm/min; ISO 527
Flexural Modulus	0.900 GPa	131 ksi	ASTM D790
Izod Impact, Notched	1.96 J/cm @Temperature -20.0 Â°C	3.67 ft-lb/in @Temperature -4.00 Â°F	ASTM D256
	2.65 J/cm @Temperature 0.000 Â°C	4.96 ft-lb/in @Temperature 32.0 Â°F	ASTM D256
	3.04 J/cm @Temperature 23.0 Â°C	5.69 ft-lb/in @Temperature 73.4 Â°F	ASTM D256

Hydrostatic Design Basis Mechanical Properties	10.0 MPa Metric	1450 psi English	ISO 9080 Comments
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Thermal Properties	Metric	English	Comments
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Brittleness Temperature	<= -60.0 °C	<= -76.0 °F	ASTM D746
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Descriptive Properties	Value	Comments
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Carbon Black/Pigment Dispersion (grade)	<3	ISO 18553
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Color	Blue	RAL5005
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Resistance to Slow Crack Growth	>1000 hours	ISO 13479
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## Contact Songhan Plastic Technology Co.,Ltd.

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