

SCG Chemicals EL-Leneâ„¢ H1000PC 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, low sagging, good balance of MRS, SCG, and RCP Recommended Applications:

Water pressure and gas pipes Certification: Certified by EXOVA, LNE, AENOR, INSTA, GOST, PE100+ association Information provided by

SCG Chemicals

Order this product through the following link:

http://www.lookpolymers.com/polymer_SCG-Chemicals-EL-Lene-H1000PC-High-Density-Polyethylene-Pipe-Resin.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.959 g/cc	0.959 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
Carbon Black Loading	2.3 %	2.3 %	ISO 6964
Melt Flow	0.25 g/10 min @Load 5.00 kg, Temperature 190 Â°C	0.25 g/10 min @Load 11.0 lb, Temperature 374 Â°F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	64	64	ASTM D2240
Tensile Strength at Break	35.0 MPa	5080 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	791 %	791 %	Crosshead speed 100 mm/min; ISO 527
Flexural Modulus	1.00 GPa	145 ksi	ASTM D790
Izod Impact, Notched	2.45 J/cm @Temperature -20.0 Â°C	4.59 ft-lb/in @Temperature -4.00 Â°F	ASTM D256
	3.14 J/cm @Temperature 0.000 Â°C	5.88 ft-lb/in @Temperature 32.0 Â°F	ASTM D256
	3.53 J/cm	6.61 ft-lb/in	ASTM D256

Mechanical Properties	Metric@Temperature 23.0 Â°C	English@Temperature 73.4 Â°F	Comments
Hydrostatic Design Basis	10.0 MPa	1450 psi	ISO 9080

Thermal Properties	Metric	English	Comments
Brittleness Temperature	<= -60.0 Â°C	<= -76.0 Â°F	ASTM D746

Descriptive Properties	Value	Comments
Carbon Black/Pigment Dispersion (grade)	<3	ISO 18553
Color	Black	
Rapid Crack Propagation	=12 bar	ISO 13477
Resistance to Gas Constituents	>20 hours	ISO 1167
Resistance to Slow Crack Growth	>500 hours	ISO 13479

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