

SCG Chemicals EL-Leneâ,,ç H5211PBR 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
Recommended Applications: Non pressure pipes, co-extruded pipes as the inner layer
Information provided by SCG Chemicals

Order this product through the following link:

http://www.lookpolymers.com/polymer_SCG-Chemicals-EL-Lene-H5211PBR-High-Density-Polyethylene-Pipe-Resin.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.950 g/cc	0.950 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	0.56 g/10 min @Load 5.00 kg, Temperature 190 Â°C	0.56 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	33.2 MPa	4820 psi	Crosshead speed 100 mm/min; ISO 527
Tensile Strength, Yield	23.7 MPa	3440 psi	Crosshead speed 100 mm/min; ISO 527
Elongation at Break	900 %	900 %	Crosshead speed 100 mm/min; ISO 527
Flexural Modulus	0.910 GPa	132 ksi	ASTM D790
Izod Impact, Notched	0.637 J/cm @Temperature -20.0 Â°C	1.19 ft-lb/in @Temperature -4.00 Â°F	ASTM D256
	1.27 J/cm @Temperature 0.000 Â°C	2.39 ft-lb/in @Temperature 32.0 Â°F	ASTM D256
	1.67 J/cm @Temperature 23.0 Â°C	3.12 ft-lb/in @Temperature 73.4 Â°F	ASTM D256

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	Brown	

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