

SCG Chemicals EL-Lene™ H5211PYL 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
Recommended Applications: Stripe lines for PE80 pipe, non pressure pipes
Certification: Certified by LNE
Information provided by SCG Chemicals

Order this product through the following link:

http://www.lookpolymers.com/polymer_SCG-Chemicals-EL-Lene-H5211PYL-High-Density-Polyethylene-Pipe-Resin.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.958 g/cc	0.958 g/cc	ISO 1183
Environmental Stress Crack Resistance	>= 10000 hour	>= 10000 hour	F0; ASTM D1693
Oxidative Induction Time (OIT)	>= 20 min @Temperature 200 °C	>= 20 min @Temperature 392 °F	ISO/TR10837
Melt Flow	0.45 g/10 min @Load 5.00 kg, Temperature 190 °C	0.45 g/10 min @Load 11.0 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	63	63	ASTM D2240
Tensile Strength at Break	34.0 MPa	4930 psi	Crosshead speed 100 mm/min; ISO 527
Tensile Strength, Yield	25.0 MPa	3630 psi	Crosshead speed 100 mm/min; ISO 527
Elongation at Break	870 %	870 %	Crosshead speed 100 mm/min; ISO 527
Flexural Modulus	1.03 GPa	149 ksi	ASTM D790
Izod Impact, Notched	1.83 J/cm @Temperature 23.0 °C	3.43 ft-lb/in @Temperature 73.4 °F	ASTM D256

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

Descriptive Properties	Value	Comments
Carbon Black/Pigment Dispersion (grade)	<3	ISO 18553
Color	Yellow	

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