



Product Description

EL-Lene H1000P is a natural, bimodal technology, high density polyethylene designed as a general base resin for use in coloured resins for pipe and striping applications.

Typical Application

- Drainage pipes
- Sewage pipes
- Water pipes
- Corrugated pipes

Product Characteristics

- Good processing
- High thermal stability
- Outstanding mechanical strength
- Excellent stress cracking resistance

Physical properties

Property	Test Method	Value	Unit
Melt Flow Rate	ISO 1133 @ 190°C, 5.0 kg	0.22	g /10 min
Density (Compound)	ISO 1183	0.950	g / cm ³
Tensile Strength at Yield	ISO 527 @ Crosshead speed 100 mm/min	23	MPa
Tensile Strength at Break	ISO 527 @ Crosshead speed 100 mm/min	34	MPa
Elongation at Break	ISO 527 @ Crosshead speed 100 mm/min	600	%
Flexural Modulus	ASTM D 790	1,000	MPa
Notched Izod Impact	ASTM D 256 @ 23°C	40	kg .cm/cm
Notched Izod Impact	ASTM D 256 @ 0°C	35	kg .cm/cm
Notched Izod Impact	ASTM D 256 @ -20°C	30	kg .cm/cm
Hardness	ASTM D 2240	64	Shore D
ESCR	ASTM D 1693	>1,000	Hrs, F ₀
Brittleness Temperature	ASTM D 746	<-60	°C

Processing Guidelines

For extrusion of EL-Lene H1000P, it is recommended to use a screw equipped with mixing elements such as pineapple or maddock in order to achieve good carbon black dispersion.

For normal extrusion equipments we suggest a melt temperature of 200 - 220°C.

Product Technical Assistance

For technical assistance or further information on this product or any other SCG Chemicals' products, please contact your SCG Chemicals technical service at the address or telephone number as specified below.

Product Available Form

- White pellet

Product Packaging

- 25 kg loose bag
- 750 kg big bag or Sea bulk

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