

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	24	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 giving good homogenisation without excessive shear. Standard PE screws have proven satisfactory and will be used with good result. For normal extrusion equipments we suggest a melt temperature of 200 - 240°C.

Product Technical Assistance

For technical assistance or further information on this product or any other EL-Lene products contact ; EL-Lene representative.

Product Available Form

- Natural pellet

Product Handling

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

The information presented in this data sheet is offered in good faith. SCG Plastics Company Limited accepts no responsibility for the accuracy or interpretation of the information presented. The users have to establish for themselves the most suitable formulation, production method and control tests, to ensure the uniformity and quality of their products in compliance with all related laws.

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