

Product Description

EL-Lene H1000PWI is a white HDPE compound made using bimodal technology with the base resin classified as MRS 10.0 material (PE100) providing superior mechanical properties and processability. In addition it has a UV and anti-oxidant package which combined with good dispersion of the white pigment results in excellent long term UV resistance and thermal stability.

Typical Application

- Above ground pipes
- Co-Extrusion of pipes

Product Characteristics

- Good processing
- Excellent thermal stability
- Good UV resistance
- Reduce heat conductivity

International specification

- ASTM D3350, Class PE445546C

Physical properties

Property	Test Method	Value	Unit
Melt Flow Rate	ISO 1133 @ 190°C, 5.0 kg	0.30	g /10 min
	ISO 1133 @ 190°C, 21.0 kg	14	g /10 min
Density (Base resin)	ISO 1183	0.950	g / cm ³
Density (Compound)	ISO 1183	0.970	g / cm ³
Tensile Strength at Yield	ISO 527 @ Crosshead speed 100 mm/min	> 230	kg/cm ²
Oxidative induction time	ISO/TR10837 @ 210oC	> 50	min.
Flexural Modulus	ASTM D 790	1,000	MPa.
Hardness	ASTM D 2240	62	Shore D

Processing Guidelines

For extrusion of EL-Lene H1000PWI, 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 - 220oC.

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 Product Packaging

- White pellet
 - 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.





Technical Datasheet

PE 100 White HDPE Compound

EL-Lene™

H1000PWI

Storage

- Store in original container in tidy according to the manual of Handling and Storage from Thai Polyethylene Company Limited/ Thai Polypropylene Company Limited.
- Product(s) should be stored in dry and dust free location at temperature below 50°C and protected from direct sunlight and/or heat, well-ventilated area, away from incompatible materials and food and drink, as this may lead to quality deterioration, which results in odour generation and colour changes and can have negative effects on the physical properties of this product.
- Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.
- The storage area should be stable and not be slopped.

EL-Lene™ EL-Pro™ EL-Wax™



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