

## 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	Product Characteristics	International specification
<ul style="list-style-type: none"> <li>■ Above ground pipes</li> <li>■ Co-Extrusion of pipes</li> </ul>	<ul style="list-style-type: none"> <li>■ Good processing</li> <li>■ Excellent thermal stability</li> <li>■ Good UV resistance</li> <li>■ Reduce heat conductivity</li> </ul>	■ 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 <sup>3</sup>
Density (Compound)	ISO 1183	0.970	g / cm <sup>3</sup>
Tensile Strength at Yield	ISO 527 @ Crosshead speed 100 mm/min	> 230	kg/cm <sup>2</sup>
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.

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**www.chemicals.scg.co.th**

**Rev. Jan' 12 Valid until next revision**



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 sloped.

## Safety

- The product is not classified as a hazardous material.
- Please see our Material Safety Data Sheet for details on various aspects of safety, recovery, and disposal of the products; for more information, contact your SCG Plastics/SCG Performance Chemicals technical service.

## Recycling

- The product is suitable for recycling using modern methods of shredding and cleaning. In-house production waste should be kept clean to facilitate direct recycling.
- Please see our Material Safety Data Sheet for details on various aspects of safety, recovery and disposal of the products; for more information, contact your SCG Plastics/SCG Performance Chemicals technical service.

## Related Documents

- The lastest version of this document will be available at our website, [www.chemicals.scg.co.th](http://www.chemicals.scg.co.th), or can be obtained from the SCG Plastics/SCG Performance Chemicals technical service.
- The following related documents are available on request, and represent various aspects on the usability, safety, recovery and disposal of the product.
  - Material Safety Data Sheet
  - Statement on compliance to food contact regulations

## Disclaimer

- The product can be used only for the application as specified hereabove.
- To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication, however we do not assume any liability whatsoever for the accuracy and completeness of such information.
- We make no warranties which extend beyond the description contained herein. Nothing herein shall constitute any implied warranty of merchantability or fitness for a particular purpose.
- It is the customer's responsibility to inspect and test our products in order to satisfy itself as to the suitability of the products for the customer's particular purpose. The customer is responsible for the appropriate, safe and legal use, processing and handling of our products.
- No liability can be accepted in respect of the use of our products in conjunction with other materials. The information contained herein relates exclusively to our products when not used in conjunction with any third party materials.

EL-Lene™ EL-Pro™ EL-Wax™ 

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