

Product Description

EL-Lene H5211PBL is a light blue (no darker than RAL5012), bimodal technology, high density polyethylene compound that is specially designed for striping. EL-Lene H5211PBL consists of high UV stabilizer and anti-oxidant which are well dispersed and provides outstanding UV resistance and high thermal stability for long term using.

Typical Application

- Non-Pressure Pipe
- Stripe for PE80 pipe

Product Characteristics

- Good processing
- High thermal stability
- Outstanding mechanical strength
- High UV resistance

International specification

- NF Mark, France

Physical properties

Property	Test Method	Value	Unit
Melt Flow Rate	ISO 1133 @ 190°C, 5.0 kg	0.44	g /10 min
Density (Compound)	ISO 1183	0.956	g / cm ³
Tensile Strength at Yield	ISO 527 @ Crosshead speed 100 mm/min	25	MPa
Tensile Strength at Break	ISO 527 @ Crosshead speed 100 mm/min	35	MPa
Elongation at Break	ISO 527 @ Crosshead speed 100 mm/min	860	%
Oxidative induction time	ISO/TR10837 @ 200°C	>50	min.
Vicat softening temperature	ASTM D 1225	125	°C
Hardness	ASTM D 2240	64	Shore D
Notched Izod Impact	ASTM D 256 @ 23°C	18	kg .cm/cm
Flexural Modulus	ASTM D 790	980	MPa
Brittleness temperature	ASTM D 746	<-60	°C
ESCR (25% igepal)	ASTM D 1693	>10,000	Hrs, F ₀

Processing Guidelines

For extrusion of EL-Lene H5211PBL, it is recommended to use a screw giving good melting and mixing without excessive shear. A single or double flight PE screws have proven satisfactory and will be used with good result. For normal extrusion equipments we suggest a melt temperature of 180 -200°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

- Blue pellet

Product Packaging

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

SCG Plastics Company Limited / SCG Performance Chemicals Company Limited





Technical Datasheet

Light Blue HDPE Compound Material for Stripe

EL-Lene™

H5211PBL

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.

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