

Product Description

EL-Lene H5211P is a natural, bimodal technology, high density polyethylene designed as a general base resin of colour compound for pipe and stripe.

Typical Application

- Corrugated pipes
- Water pipes

Product Characteristics

- Good processing
- Outstanding mechanical strength
- Excellent stress cracking resistance

Physical properties

Property	Test Method	Value	Unit
Melt Flow Rate	ISO 1133 @ 190°C, 5.0 kg	0.44	g /10 min
Density	ISO 1183	0.95	g / cm ³
Tensile Strength at Yield	ISO 527 @ Crosshead speed 100 mm/min	22	MPa
Tensile Strength at Break	ISO 527 @ Crosshead speed 100 mm/min	34	MPa
Elongation at Break	ISO 527 @ Crosshead speed 100 mm/min	820	%
Flexural Modulus	ASTM D 790	980	MPa
Notched Izod Impact	ASTM D 256 @ 23°C	23	kg .cm/cm
Notched Izod Impact	ASTM D 256 @ 0°C	19	kg .cm/cm
Notched Izod Impact	ASTM D 256 @ -20°C	10	kg .cm/cm
Hardness	ASTM D 2240	62	Shore D
ESCR	ASTM D 1693	>5,000	Hrs, F ₀
Brittleness Temperature	ASTM D 746	<-60	°C

Processing Guidelines

For extrusion of EL-Lene H5211P, 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 170 - 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

- White 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

Natural HDPE resin

EL-Lene™

H5211P

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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