



### Product Description

EL-Lene H5211P is a natural high density polyethylene designed as a general base resin for use in coloured resins for pipe and striping applications.

### Typical Application

- Corrugated pipes
- Water 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	0.47	g /10 min
Density (Compound)	ISO 1183	0.952	g / cm <sup>3</sup>
Tensile Strength at Yield	ISO 527 @ Crosshead speed 100 mm/min	22	MPa
Tensile Strength at Break	ISO 527 @ Crosshead speed 100 mm/min	32	MPa
Elongation at Break	ISO 527 @ Crosshead speed 100 mm/min	820	%
Flexural Modulus	ASTM D 790	960	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	>1,000	Hrs, F <sub>0</sub>
Brittleness Temperature	ASTM D 746	<-60	°C

### Processing Guidelines

For extrusion of EL-Lene H5211P, 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 170 - 200°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.

**SCG Plastics Company Limited 1 Siam Cement Road, Bangsue, Bangkok, 10800 Thailand.**

**Tel. +66 2586 3675, +66 2586 5111, +66 2586 5511 Fax +66 2586 3676**

**Rev. Aug' 07**