

Producer: SCG Chemicals Co., Ltd. / Thailand

EL-Lene H1000P

Description: Natural HDPE Resin For Pipe Extrusion (PE 100).

EL-Lene H1000P is a natural, bimodal, high density polyethylene designed as a general base resin for use in coloured resins for pipe and striping applications.

Typical characteristics are:

- Good processing
- High thermal stability
- Outstanding mechanical strength
- Excellent stress cracking resistance

Applications:

- Drainage pipes
- Sewage pipes
- Water pipes
- Corrugated pipes

PROPERTIES	TEST METHOD	VALUE	UNIT
Melt Flow Rate	ISO 1133 @ 190°C, 2.16 kg	0.04	g /10 min
Melt Flow Rate	ISO 1133 @ 190°C, 5.0 kg	0.22	g /10 min
Density (Compound)	ISO 1183	0.950	g / cm ³
Tensile Strength at Yield	ISO 527 @ Crosshead speed 50 mm/min	24	Mpa
Tensile Strength at Break	ISO 527 @ Crosshead speed 50 mm/min	34	Mpa
Elongation at Break	ISO 527 @ Crosshead speed 50 mm/min	600	%
Flexural Modulus	ASTM D 790	1,000	Mpa
Notched Izod Impact	ASTM D 256 @ 23°C	40	kg.cm/cm
Notched Izod Impact	ASTM D 256 @ 23°C	35	kg.cm/cm
Notched Izod Impact	ASTM D 256 @ -20°C	30	kg.cm/cm
Hardness	ASTM D 2240	64	Shore D
ESCR	ASTM D 1693	>1,000	Hrs, F ₀
Brittleness Temperature	ASTM D 746	<-60	°C

Processing Techniques:

For extrusion of **EL-Lene H1000P**, 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 - 240°C.

Product Available Form:

- Natural pellet

Product Handling:

- 25 kg loose bag, 25 kg bag on pallet
- 750 kg big bag