

# EL-Lene™ H1000P

High Density Polyethylene

SCG Chemicals Co., Ltd.

## Message:

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

General Information	
Features	Good Processability
	Good Thermal Stability
	High ESCR (Stress Crack Resist.)
	High Strength
Uses	Corrugated Pipe
	Piping
Appearance	Natural Color
Forms	Pellets
Processing Method	Extrusion
	Pipe Extrusion

Physical	Nominal Value	Unit	Test Method
Density	0.950	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	0.22	g/10 min	ISO 1133
Environmental Stress-Cracking Resistance (F0)	> 5000	hr	ASTM D1693
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	64		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2/100
Yield	23.0	MPa	
Break	34.0	MPa	
Tensile Strain (Break)	600	%	ISO 527-2/100
Flexural Modulus	1000	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-20°C	290	J/m	
0°C	340	J/m	
23°C	390	J/m	
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -60.0	°C	ASTM D746

Extrusion	Nominal Value	Unit
Melt Temperature	200 to 220	°C

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Recommended distributors for this material

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