

# Halene H P4600L

High Density Polyethylene

Haldia Petrochemicals Ltd.

## Message:

P4600L is a pipe grade HDPE, produced by the Spherilene Technology.  
This resin is recommended for water pipes, sprinkler irrigation pipes and telecom ducts.  
P4600L combines exceptional processability with good creep resistance, ESCR and mechanical properties.

General Information			
Features	Good Creep Resistance		
	Good Processability		
	High ESCR (Stress Crack Resist.)		
Uses	Piping		
Processing Method	Pipe Extrusion		
Physical	Nominal Value	Unit	Test Method
Density <sup>1</sup>	0.946	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/5.0 kg)	1.1	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (10% Igepal, Compression Molded, F50)	> 500	hr	ASTM D1693B
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>2</sup>			ASTM D638
Yield, Compression Molded	27.0	MPa	
Break, Compression Molded	40.0	MPa	
Tensile Elongation <sup>3</sup>			ASTM D638
Yield, Compression Molded	8.0	%	
Break, Compression Molded	750	%	
Flexural Modulus (Compression Molded)	1000	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, Compression Molded)	290	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	77.0	°C	ASTM D648
Vicat Softening Temperature	130	°C	ASTM D1525
Peak Melting Temperature	132	°C	ASTM D3418
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	160 to 200	°C	
Cylinder Zone 2 Temp.	160 to 220	°C	
Cylinder Zone 3 Temp.	160 to 220	°C	
Cylinder Zone 4 Temp.	160 to 220	°C	
Cylinder Zone 5 Temp.	160 to 220	°C	

Die Temperature	200	°C
NOTE		
1.	27°C	
2.	50 mm/min	
3.	50 mm/min	

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#### Recommended distributors for this material

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

