## Halene – H\*

## **PROVISIONAL DATA SHEET**

**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.

Properties	Test Method	Unit	Value
Melt Flow Index (5.0 Kg, 190 °C)	ASTM D 1238	g/10 min	1.1
Density ( 27°C)	ASTM D 1505	g/cm <sup>3</sup>	0.946
Physical Property			
Tensile Strength at Yield		MPa	27
Elongation at Yield	ASTM D 638	%	8
Tensile Strength at Break	(50 mm/min)	MPa	40
Elongation at Break		%	750
Notched Izod Impact Strength (23 ℃)	ASTM D 256A	J/m	290
Flexural Modulus	ASTM D 790A	MPa	1000
ESCR (F <sub>50</sub> , 10% Igepal soln. v/v)	ASTM D 1693B	Hr	>500
DSC Melting Temperature	ASTM D 3418	°C	132
Vicat Softening Point	ASTM D1525	°C	130
Heat Distortion Temperature (at 0.455 MPa)	ASTM D648	°C	77
Suggested Processing Conditions			
Barrel Temperature		°C	160 - 200

\* Halene H is the registered trademark of High Density Polyethylene of HPL.

Mechanical properties are on specimens from compression molded sheets

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**Die Temperature** 

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