

## PROVISIONAL DATA SHEET

## P4600L

**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 (at 27°C)	ASTM D 1505	g/cm <sup>3</sup>	0.946
<b>Physical Property</b>			
Tensile Strength at Yield**		MPa	27
Elongation at Yield**		%	8
Tensile Strength at Break**	ASTM D 638	MPa	40
Elongation at Break**		%	750
Izod Impact Strength ( 23°C)	ASTM D 256	J/m	290
Flexural Modulus	ASTM D 790	MPa	1000
E.S.C.R.	ASTM D 1693	Hr	>500
DSC Melting Temperature	ASTM D 3418	°C	132
<b>Suggested Processing Conditions</b>			
Barrel Temperature		°C	180 - 220
Die Temperature		°C	220

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

\*\* Tensile Properties are on Compression Molded Type IV Specimens as per ASTM D 638

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