

TECHNICAL DATA SHEET

P 5300

P5300 is a **pipe grade** HDPE, produced by the **Mitsui CX** Process. This resin is particularly recommended for high-pressure pipe applications.

P5300 combines exceptional processability with high creep resistance, high ESCR and excellent mechanical properties.

Properties	Test Method	Unit	Value
Melt Flow Index (5.0 Kg, 190°C)	ASTM D 1238	g/10 min	0.25
Density (at 27°C)	ASTM D 1505	g/cm ³	0.948
Physical Property			
Tensile Strength at Yield**		MPa	25
Elongation at Yield**		%	11
Tensile Strength at Break**	ASTM D 638	MPa	37
Elongation at Break**		%	1000
Izod Impact Strength (Notch, 23 °C)	ASTM D 256	J/m	270
Flexural Modulus	ASTM D 790	MPa	1000
Hardness	ASTM D 2240	Shore D	61
E.S.C.R.	ASTM D 1693	Hr	> 1000
Vicat Softening Point (10N)	ASTM D 1525	°C	125
DSC Melting Temperature	ASTM D 2117	°C	131
Oxidation Induction Time	DOT	min	> 30

Suggested Processing Conditions

Barrel Temperature	°C	160 - 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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