TECHNICAL DATA SHEET

P5300

P5300 is a pipe grade HDPE, produced by the Mitsui CX Process.

This resin is recommended for **PE 112** pressure pipe applications.

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

P5300 has a **MRS 11.2 MPa** according to ISO 9080 and is designated **PE 112** according to ISO 12162:1995.

Property	Test Method	Unit	Value
Melt Flow Index (5.0 Kg, 190 ℃)	ASTM D 1238	g/10 min	0.25
Density (27°C)	ASTM D 1505	g/cm ³	0.948
Physical Property			
Tensile Strength at Yield		MPa	26
Elongation at Yield	ASTM D 638	%	8
Tensile Strength at Break	(50 mm/min)	MPa	41
Elongation at Break		%	1000
Notched Izod Impact Strength (23°C)	ASTM D 256A	J/m	270
Flexural Modulus	ASTM D 790A	MPa	1000
Hardness	ASTM D 2240	Shore D	61
ESCR (F ₅₀ , 10% Igepal soln. v/v)	ASTM D 1693B	Hr	>1000
Vicat Softening Point (10N)	ASTM D 1525	${\mathbb C}$	125
DSC Melting Temperature	ASTM D 3418	${\mathbb C}$	131
Oxidative Induction Time	ASTM D 3895	min	>30
Critical pressure for crack propagation at 0 °C	ISO 13477	Bar	≥12
Suggested Processing Conditions			
Barrel Temperature		℃	160 – 220
Die Temperature		℃	220

^{*} 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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