

TECHNICAL DATA SHEET

P5100

P5100 is a pipe grade HDPE, produced by the Mitsui CX Technology

This resin is recommended for **PE 80** compliant pressure pipes

P5100 combines excellent processability with good creep resistance, ESCR and mechanical properties

Property	Test Method	Unit	Value
Melt Flow Index (5 kg, 190°C)	ASTM D1238	g/10 min	0.5
Density (27°C)	ASTM D1505	g/cm ³	0.948
Physical Property			
Tensile Strength at Yield		MPa	25
Tensile Strength at Break	ASTM D638 (50 mm/min)	MPa	35
Elongation at Break		%	> 850
Notched Izod Impact Strength (23°C)	ASTM D256A	J/m	200
Flexural Modulus	ASTM D790A	MPa	1000
Hardness	ASTM D2240	Shore D	65
ESCR (F ₅₀ , 10% Igepal soln. v/v)	ASTM D1693B	Hr	> 500
Vicat Softening Point (10 N)	ASTM D1525	°C	122
Heat Deflection Temperature (0.455 MPa)	ASTM D648	°C	68
Oxidative Induction Time	ASTM D3895	Min	> 30
Suggested Processing Conditions			
Barrel Temperature		°C	160 – 180
Die Temperature		°C	170 – 190

* 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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