

TECHNICAL DATA SHEET

P5200UV

P5200UV is a pipe grade HDPE, produced by the Mitsui CX Technology.

P5200UV is stabilized adequately with HALS⁺ to give a long service life under outdoor exposure and recommended for telecom ducts.

P5200UV combines excellent processability with good creep resistance, ESCR and mechanical properties.

Property	Test Method	Unit	Value
Melt Flow Index (5.0 Kg, 190 °C)	ASTM D 1238	g/10 min	0.8
Density (27 °C)	ASTM D 1505	g/cm ³	0.948
Physical Property			
Tensile Strength at Yield		MPa	25
Elongation at Yield	ASTM D 638	%	7
Tensile Strength at Break	(50 mm/min)	MPa	38
Elongation at Break		%	750
Notched Izod Impact Strength (23 °C)	ASTM D 256A	J/m	175
Flexural Modulus	ASTM D 790A	MPa	900
Hardness	ASTM D 2240	Shore D	62
ESCR (F ₅₀ , 10% Igepal soln. v/v)	ASTM D 1693B	Hr	>1000
Vicat Softening Point (10N)	ASTM D 1525	°C	121
Heat Distortion Temperature (0.455 MPa)	ASTM D 648	°C	67
Oxidative Induction Time	ASTM D 3895	min	>30

Suggested Processing Conditions

Barrel Temperature	°C	150 – 180
Die Temperature	°C	170 – 180

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

Mechanical Properties are on specimens from Compression Molded sheets

+ The total Hindered Amine Light Stabilizer content is ~ 2000 ppm

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