

Product Texts

P5100 is a HDPE pipe grade produced by Mitsui CX Process.

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

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	0.09	g/10min	ASTM D 1238
Temperature	190	°C	-
Load	2.16	kg	-

Mechanical properties	Value	Unit	Test Standard
ASTM Data			
Tensile Strength at Yield	25	MPa	ASTM D 638
Tensile Strength at Break	35	MPa	ASTM D 638
Elongation at Break	850	%	ASTM D 638
Flexural Modulus	1100	MPa	ASTM D 790
Shore D Hardness	65	-	ASTM D 2240

Thermal properties	Value	Unit	Test Standard
ASTM Data			
DTUL @ 66 psi	64	°C	ASTM D 648
Melting Temperature	131	°C	ASTM D 3418
Vicat Temperature	125	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Density	952	kg/m ³	ASTM D 792

Processing Recommendation Extrusion	Value	Unit	Test Standard
Zone 1	160 - 180	°C	-
Nozzle temperature	170 - 190	°C	-

Characteristics

Processing
Pipe/Tube Extrusion

Chemical Resistance
Environmental Stress Crack Resistance

Features
Creep Resistance

Regional Availability
Asia Pacific