

Product Texts

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

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

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

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	0.25	g/10min	ASTM D 1238
Temperature	190	°C	-
Load	5	kg	-

Mechanical properties	Value	Unit	Test Standard
ASTM Data			
Tensile Strength at Yield	26	MPa	ASTM D 638
Tensile Strength at Break	40	MPa	ASTM D 638
Elongation at Yield	11	%	ASTM D 638
Elongation at Break	800	%	ASTM D 638
Flexural Modulus	1100	MPa	ASTM D 790
Shore D Hardness	65	-	ASTM D 2240
Izod Impact notched, 1/8 in	270	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ASTM Data			
DTUL @ 66 psi	70	°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	950	kg/m ³	ASTM D 792

Processing Recommendation Extrusion	Value	Unit	Test Standard
Pre-drying - Temperature	90	°C	-
Pre-drying - Time	2	h	-
Zone 1	160 - 220	°C	-
Nozzle temperature	180 - 220	°C	-

Characteristics

Processing

Pipe/Tube Extrusion

Features

Creep Resistance

Chemical Resistance

Environmental Stress Crack Resistance

Regional Availability

Asia Pacific