

Basic Standard HDPE PE 100 Pressure Pipe Material Data

Our Pipes comply to ASTM D 3350 PE 345444 C / E

	Norm	Unit	Value
Polymer Data			
Density	ISO 1183	[g/cm ³]	0,959
Melt Flow	ISO 1183	[g/10 min]	0,25
Mechanical Properties			
Durometer Hardness	ASTM D 2240	Shore D	64
Elongation at break	ISO 527-1	[%]	> 800
Flexural Modulus	ASTM D 790	[MPa]	1000
Tensile Strength at yield	ISO 527-1	[Mpa]	26
Tensile strength at break	ISO 527-1	[Mpa]	> 35
Impact Strength -20°C	ASTM D 256	[J/m]	245
Impact Strength 0°C	ASTM D 256	[J/m]	314
Impact Strength 23°C	ASTM D 256	[J/m]	353
Other properies			
Hydrostatic Design Basis	ISO 9080	[Mpa]	10
ESC	ASTM D 1693	hr	>10000
OIT Oxidation Induction T	ISO 10837	Minutes	>70
Rapid Crack Propagation	ISO 13477	bar	>12
Slow Crack Resistance	ISO 13479	[hrs]	> 500