

**Basic HDPE PE 100 Special Fitting Material Data**

These material data are valid for shaft liner, double pipe fittings, expansion joints, emergency valve, eccentric reducer, concrete wall fixing, fixing point, expansion socket, single socket, double socket, compensator and reinforced fittings.

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

	Norm	Unit	Value
<b>Polymer Data</b>			
Density	ISO 1183	[g/cm <sup>3</sup> ]	0,959
Melt Flow	ISO 1183	[g/10 min]	0,25
<b>Mechanical Properties</b>			
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
<b>Other properies</b>			
Hydostatic 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