

Basic Standard HDPE Cable Protection Pipe Material Data

	Norm	Unit	Value	Value
			PE 80/PE 100 Q2	PE 80/PE 100 Q3
Polymer Data				
Density	ASTM D 1505	[g/cm ³]	0,935 - 0,965	0,935 - 0,965
Melt Flow	ASTM D 1238	[g/10 min]	1,2	1,2 - 1,5
Mechanical Properties				
Elongation at yield stress	ASTM D 638	[%]	> 8	> 8
Elongation at break	ASTM D 638	[%]	> 500	> 500
Flexural Modulus	ASTM D 790	[MPa]	600 – 800	600 - 800
Ball indentation hardness	ISO 2039	[N/mm ²]	44 +/-4	44 +/-4
Shore hardness	ASTM D 2240	[Shore A]	60 – 61	60 - 61
Tensile Strength at yield	ASTM D 638	[MPa]	21	18
Tensile strength at break	ASTM D 638	[MPa]	> 35	> 30
Impact Strength	ASTM D 256	[KJ/cm/cm]	> 20	> 17
Other properies				
Hydostatic Design Basis	ASTM D 2837	[MPa]	8,0	N/A
ESC	ASTM D 1693	[hrs]	> 170	N/A