

Basic DHPS 2 HDPE Half Pipe Material Data

All colors of our DHPS 2 Half pipes are based on the same HDPE polymer.
Black and colored raw material data are both within the named values.

Our DHPS 2 Half Pipes comply to ASTM D 3350 PE 345444 C / E

	Requirements		Norm	Unit	Required FIB value	DHPS Pipe value
	FIB	others				
Polymer Data						
Density	x		ASTM D 1505	[g/cm³]	0,941 - 0,955	0,941 - 0,946
Melt Flow	x		ASTM D 1238	[g/10 min]	max 1,0	0,41 - 0,55
Mechanical Properties						
Elongation at yield stress		x	ASTM D 638	[%]	8	> 8
Elongation at break		x	ASTM D 638	[%]	> 700	> 800
Flexural Modulus	x		ASTM D 790	[MPa]	550 - 1100	800 - 950
Ball indentation hardness		x	ISO 2039	[N/mm²]	44 +/-4	44 +/-4
Shore hardness		x	ASTM D 2240	[Shore A]	60	60 - 61
Tensile Strength at yield	x		ASTM D 638	[MPa]	21 - 24	21 - 22
Tensile strength at break		x	ASTM D 638	[MPa]	35	> 35
Impact Strength		x	ASTM D 256	[KJ/cm/cm]	18	> 20
Other properies						
Hydostatic Design Basis	x		ASTM D 2837	[MPa]	0,86 – 1,1	1,1
ESC	x		ASTM D 1693	[hrs]	> 192	> 1500