Basic DHP NOFX HDPE Pipe Material Data

DHP NOFX HDPE pipes consist of black or colored raw material data within the named values.

Our DHP NOFX half pipes comply to FIB bulletin 30 Recommendation, PTI edition 6 ASTM D 3350 class PE 345444 C (black) and E (coloured) and CIP Setra 2001.

	Test on	Norm	Unit	Required FIB value	NOFX Half Pipe value
Polymer Data					
Density	Raw Material	ISO 1183	[g/cm³]	> 0,94	0,941 - 0,946
Melt Index 190/5	Raw Material	ISO 1133	[g/10min]	0,35 – 1,4	0,41 – 0,55
Carbon black	Raw Material	ISO 6964	[%]	2,3 +/- 0,3	2,3
Dispersion of carbon black	Raw Material	ISO 18553	[Index]	max 3	2
Distribution of carbon black	Raw Material	ISO 18553	[Index]	max C2	C2
Antioxydant ingredients	Raw Material		ppm	>1000	>1000
Shore D hardness	Raw Material	ISO 868	points	>55	64
Mechanical Properties					
Tensile Strength at yield	Raw Material	ISO 527-2	[MPa]	> 22	> 22
	Pipe	ISO 6259-3	[MPa]	> 18	> 20
Elongation at break 23°C	Raw Material	ISO 527-2	[%]	> 600	> 800
	Pipe	ISO 6259-3	[%]	> 350	> 500
Elongation at break -20°C	Raw Material	ISO 527-2	[%]	> 150	> 250
	Pipe	ISO 6259-3	[%]	> 100	> 150
Flexural Modulus	Raw Material	ISO 178	[MPa]	> 750	900
Izod Impact 23°C	Raaw Material	ISO 180	>20KJ/m2	-	>20KJ/m2
Other Properties					
Thermal stability under O2	Pipe	ISO TR 10.837	[Minutes]	> 20	> 20
OIT 220°C	Pipe	ASTM D3895	Minutes	>20	>20
ESCR Cond B, F50	Pipe	ASTM D 1693	hrs	>600	>1000
Thermal dilatation coeff.	Pipe	DIN 53752		-	1,7x10(-4)
Hydostatic Design Basis	Pipe	ISO 9080	MPa	8,6-11,03	8,6-11,03