

FKS HDPE PIPE RAW MATERIAL DATA

Our pipes far exceed the relevant minimum requirements for long-term hydrostatic strength of PE 80 material (ISO 1167 Annex).

Physical Properties

	Unit	Test method	
Density at 23°C	G/cm ³	ISO 1183	0,935 – 0,96
Viscosy number	cm ³ /g	ISO 1628-3	300 – 340
MFR 190/5	G/(10 min.)	ISO 1133	0,2 – 0,7

Mechanical Properties

	Unit	Test method	
Yield stress	Mpa	ISO 527	21
Yield strain	%	ISO 527	8
Tensile modulus	Mpa	ISO 527	850
Notched impact strength at 23°C	Kj/m ²	ISO 179/1 e A	10
Notched impact strength at -30°C	Kj/m ²	ISO 179/1 e A	4

Chemical Resistance

	20° C	60° C
Gas, natural	+	+
Fuel oil	+	+
Heavy duty motor oil	+	+
Hydraulic fluid	+	+
Sea water	+	+