

FKS PEG 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	Value
Density at 23°C	G/cm ³	ISO 1183	1,084
Viscosity 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	38,6
Yield strain	%	ISO 527	5,4
Bending modulus	N/mm ²	DIN 53457 - 1 min	2515
		DIN 53457 – 24 hr	1804
Tensile modulus	N/mm ²	ISO 527	2350
Flexural modulus	N/mm ²	ISO 178	2566
OIT	Minutes	EN 728	<55
Thermal expansion Coeff	K(-1)	DIN 53752	5x10(-5)

Chemical Resistance

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