

HDPE Twin Wall Pipe Material Properties

PHYSICAL PROPERTIES

	Test Method	Unit	
Density at 23°C	ISO 1183	gr/cm ³	0,935 – 0,96
Viscosity number	ISO 1628	Cm ³ /g	300 – 340
MFR 190/5	ISO 1133	gr/10min	0,2 – 0,7

Mechanical Properties

	Test Method	Unit	
Yield stress	ISO 527	Mpa	21
Yield strain	ISO 527	%	8
Tensile modulus	ISO 527	Mpa	850
Notched impact strength at 23°C	ISO 179/1 e A	Kj/m ²	10
Notched impact strength at -30°C	ISO 179/1 e A	Kj/m ²	4
Elongation at break	EN 638	%	> 300
Ball indentation hardness	DIN 2039	N/mm ²	33
Shore-Hardness	ISO 868		58

Chemical Resistance

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

+ good, o limited, - bad