

Product Name: HDPE			Rev. April 2016	
Product Characteristics		Typical Field of Application		
<ul style="list-style-type: none"> • High welding and processing properties • High chemical resistance 		<ul style="list-style-type: none"> • Chemical engineering and tank building • Corrosion protection • Relining 		
		Test Method	Unit	Value
General Properties				
Density	DIN EN ISO 1183-1	g/cm ³	0,96	
Water absorption	DIN EN ISO 62	%	<0,01	
Flammability (Thickness 3mm/6mm)	UL 94		HB	
Mechanical Properties				
Yield stress	DIN EN ISO 527	N/mm ²	22	
Elongation at break	DIN EN ISO 527	%	>50	
Tensile modulus of elasticity	DIN EN ISO 527	MPa	800	
Notched impact strength (charpy)	DIN EN ISO 179	kJ/m ²	10	
Shore hardness	DIN EN ISO 868	scale D	63	
Thermal Properties				
Melting temperature	ISO 11357-3	°C	135	
Thermal conductivity	DIN 52612-1	W / (m * K)	0,40	
Thermal capacity	DIN 52612	kJ / (kg * K)	1,90	
Coefficient of linear thermal expansion	DIN 53752	10 ⁻⁶ K ⁻¹	150-230	
Service temperature, long term	Average	°C	-50 ... 80	
Service temperature, short term (max.)	Average	°C	100	
Heat deflection temperature	DIN EN ISO 306, Vicat B	°C	67	
Electrical Properties				
Dielectric constant	IEC 60250		2,5	
Dielectric dissipation factor (10 ⁶ Hz)	IEC 60250		0,0004	
Volume resistivity	IEC 60093	Ω*cm	>10 ¹⁴	
Surface resistivity	IEC 60093	Ω	>10 ¹⁴	
Comparative tracking index	IEC 60112		600	
Dielectric strength	IEC 60243	kV/mm	45	