

## Polietileno PE-500

PROPIERTIES	TEST METHOD	UNIT	VALUE
<b>GENERAL</b>			
Density	DIN EN ISO 1183-1	gkms	96
UV			Good
Water Absorption	DIN EN ISO 62		<0,05
Chemical Resistance			
Welding	High resistance against acids, alcalis and solvents		
			Yes
<b>MECHANICAL</b>			
Yield stress / Tensile Strength	DIN EN ISO 527-1	N/mm <sup>2</sup>	27
Tensile modulus of elasticity	DIN EN ISO 527-1	MPA	1100
Elongation at break	DIN EN ISO 179	%	>50
Impact strength Kj/m <sup>2</sup>	DIN EN ISO 868		no break
Shore hardness			66
<b>THERMAL</b>			
	ISO 11357-3		
Melting temperature	DIN ISO 52612		135
Specific thermal capacity	DIN ISO 52612-1	J / (kg · K)	1,9
Thermal conductivity	DIN ISO 53752	W (mK)	0,4
Coefficient of linear thermal expansion		1/K 10	150...230
Temperature Range °C short term		°C	100
Temperature Range °C long term (max)	DIN EN ISO 306 VICAT A	°C	- 100+80
Heat deflection temperature	DIN EN ISO 306 VICAT B	°C	
		°C	80

<b>ELECTRICAL</b>			
Dielectric constant	IEC 60250		2,4
Surface resistivity	IEC 60093		10 <sup>14</sup>
Dielectric strength	IEC 60243	KV/mm	45
Comparative tracking index	IEC 60112		600