

PE500 Sheet - Technical Data Sheet



the people for plastics

	Method of verification	Unit	PE 500
Physical properties			
Molecular weight	-	10 ⁶ g/mol	0.5
Density	DIN 53479	g/cm ³	0.95
	ISO 1183		
Mechanical properties			
Yield tension	DIN 53 455	N/mm ²	27
	ISO 527-1		
Elongation at yield	DIN 53 455	%	9
	ISO 527-1		
Elongation at break	DIN 53 455	%	> 600
	ISO 527-1		
Tensile modulus of elasticity	DIN 53 455	N/mm ²	1200
	ISO 527-1		
Ball indentation hardness	DIN 53 456	N/mm ²	50
	ISO 2039		
Charpy impact value	DIN 53 456	KJ/m ²	25
	ISO 179		
Attrition	Sand-Slurry procedure	-	< 400
Coefficient of friction	DIN 53 375	-	0.2
Hardness shore D	DIN 53 505	-	65
	ISO 868		
Thermal properties			
Min. permanent temperature		°C	-60
Max. permanent temperature		°C	80
Thermal length expansion coefficient (23°C - 80°C)	DIN 53 752-A	K ⁻¹	1,5 ... 2x10 ⁻⁴
Thermal conductivity		E / (m x K)	0.4
Additional properties			
Volume resistivity	DIN 53 482	Ohm x cm	> 10 ¹⁴
Absorption of water	DIN 53 492	mg	≤ 0,01
Physiologically stable	BgVV-recommendation III	-	Ja*

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