

TECHNICAL DATA SHEET

PRODUCT: PE 500 GRADE ANTIMICROBIAL
DATE OF ISSUE: 25.05.06
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Properties, general	Data	Unit	Test method
Specific gravity	0,955	g/cm ³	ISO 1183
Molecular weight	500000	g/mol	
Melt Flow Rate (MFR 190/21,6)	2,5	g/10min	ISO 1133
Sheet classification acc. standard	TG3		DIN 16972
Properties, mechanical	Data	Unit	Test method
Tensile stress at yield	27	N/mm ²	ISO 527-1
Elongation at yield stress	10	%	ISO 527-1
Elongation at break	>50	%	ISO 527-1
Modulus of elasticity in tension	1100	N/mm ²	ISO 527-1
Impact strength	n.b.	mJ/mm ²	ISO 179
Shore hardness D	62	—	ISO 868
Wear resistance	350	—	SAND-SLURRY
Properties, thermal	Data	Unit	Test method
Fire Behaviour	HB	-	UL94
Crystalline grain melting range	130-135	°C	
Thermal conductivity	0,4 (*)	W/mK	DIN 52612
Coefficient of linear expansion	2*10 ⁻⁴ (*)	1/K	DIN 53752
Temperature range (short-term)	-100....120H	°C	
Temperature range	-100....80H	°C	DRUCK- UNDMEDIENABHANGIG
Properties, electrical	Data	Unit	Test method
Insulation resistance	>10 ¹⁴	Ohm x cm	DIN VDE 0303
Surface resistance	>10 ¹⁴	Ohm	DIN VDE 0303
Track resistance	CTI 600 M	Stufe/degree/Degre/grado	IEC 60112
Electric strength	45	kV/mm	IEC 60243
Arc resistance	L4 (*)	Stufe/degree/Degre/grado	DIN VDE 0303

Comment:

The data above are average values ascertained by current statistical returns and tests. They are provided purely for information and shall not be regarded as binding unless expressly agreed in a contract of sale.

(*) literature values

(**) depends on pressure and media