

Technical Data Sheet

Material designation	PA 4.6		
Raw material	Polyamide 4.6		
Material colour(s)	red-brown		
Properties	Unit	Test method	Value
Molecular weight (average molar mass)	g/mol		
Mechanical properties			
Density	g/cm ³	ISO 1183	1,18
Yield stress	MPa	ISO 527	100
Elongation at break	%	ISO 527	25
Modulus of elasticity	MPa	ISO 527	3.300
Impact strenght	kJ/m ²		without break
Notched impact strenght	kJ/m ²		8
Ball indentation hardness, 30s	N/mm ²	DIN ISO 2039	165
Abrasion	%	Sand slurry method	
kJ/m ²	kJ/m ²	kJ/m ²	kJ/m ²
Thermal properties			
Crystallite melting range	°C		295
Thermal conductivity	W/K * m		0,3
Application temperature (min.)	°C		-40
Application temperature (constant)	°C		155
Application temperature (max.)	°C		200
Electrical properties			
Volume resistivity	Ω cm	ISO 60096	> 10 ¹⁴
Surface resistance	Ω	ISO 60096	> 10 ¹³
Dielectric strength	kV/mm	ISO 60243	25
Dielectric constant		ISO 60250	3,8
Dielectric dissipation factor		ISO 60250	0,009

Notes for the user:

Data sheet specifications are made to our today's knowledge. This information does not mean that certain properties are agreed upon or assured. Whether or not a material is suitable for a given application is the user's decision. All specifications are subjekt to change.

Vreden, November 04