



Wefapress® PA 4.6

Standard colour(s): red-brown
 Special colour(s): –
 Fields of application: • conveyor systems

Properties: • high level of thermal stability
 • low abrasion
 • high rigidity

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	DIN 53479	1,18
Tensile strength	N/mm ²	DIN 53455	
Shore D hardness, 15s - Value	Skala D	DIN 53505	
Ball indentation hardness, 30s - Value	N/mm ²	DIN ISO 2039 Part 1	165
Ultimate tensile strength	N/mm ²	DIN 53455	
Elongation at break	%	DIN ISO / R 527	
Modulus of elasticity	N/mm ²	DIN 53457	
Notched impact strength (Charpy)	kJ/m ²	DIN 53453	8
Abrasion	%	Sand slurry method	
Coefficient of friction	μ		0,4 – 0,6
Thermal properties			
Dimensional stability under heat	°C	DIN 53461	
Vicat softening temperature	°C	DIN 53460	
Crystalline melting range	°C	DTA	
Thermal conductivity at 23 °C	W/ (K * m)	DIN 52612	0,3
Specific heat at 23 °C	kJ/ (K * Kg)		
Coefficient of linear expansion at 23 °C	10 ⁻⁵ * (1/K)	DIN 53752	9
Fire behaviour		UL 94	HB
Application temperature (min.)	°C		- 40
Application temperature (constant)	°C		+ 155
Moisture absorption	%		~ 2,2
Electrical properties			
Specific volume resistance	Ω * cm	DIN 53482	> 10 ¹⁴
Surface resistance	Ω	DIN 53482	> 10 ¹³
Dielectric strength	kV/mm	DIN 53481	25
Dielectric constant at 50 Hz		DIN 53485	3,8