



Wefapress® PA 6

Standard colour(s): natural, black

Special colour(s): –

Fields of application:

- components exposed to shock and impact
- gearwheels
- light-duty slide bearings
- chain guides

Properties: • high impact strength

Material designation		PA 6	
Raw material	Polyamide 6		
Material colour(s)	natural, black		
Properties	Unit	Test method	Value
Molecular weight (average molar mass)	g/mol		
Mechanical properties			
Density	g/cm ³	DIN 53479	1,14
Tensile strength	N/mm ²	DIN 53455	80
Shore D hardness, 15s - Value	Skala D	DIN 53505	81
Ball indentation hardness, 30s - Value	N/mm ²	DIN ISO 2039 Part 1	160
Ultimate tensile strength	N/mm ²	DIN 53455	80
Elongation at break	%	DIN ISO / R 527	> 50
Modulus of elasticity	N/mm ²	DIN 53457	2.700
Notched impact strength (Charpy)	kJ/m ²	DIN 53453	> 3
Abrasion	%	Sand slurry method	
Coefficient of friction	μ		0,38
Thermal properties			
Dimensional stability under heat	°C	DIN 53461	95
Vicat softening temperature	°C	DIN 53460	
Crystalline melting range	°C	DTA	218
Thermal conductivity at 23 °C	W/ (K * m)	DIN 52612	0,23
Specific heat at 23 °C	kJ/ (K * Kg)		
Coefficient of linear expansion at 23 °C	10 ⁻⁵ * (1/K)	DIN 53752	8
Fire behaviour		UL 94	HB
Application temperature (min.)	°C		- 40
Application temperature (constant)	°C		+100
Moisture absorption	%		~ 2,2
Electrical properties			
Specific volume resistance	Ω * cm	DIN 53482	10 ¹²
Surface resistance	Ω	DIN 53482	10 ¹⁰
Dielectric strength	kV/mm	DIN 53481	40
Dielectric constant at 50 Hz		DIN 53485	3,7
On request, available with:			
• approved for foodstuffs according to FDA Guidelines 21CFR177.1520 and 21 CFR178.3297			
• complies with regulations (EC) No. 10/2011, 1282/2011 and No. 1935/2004			