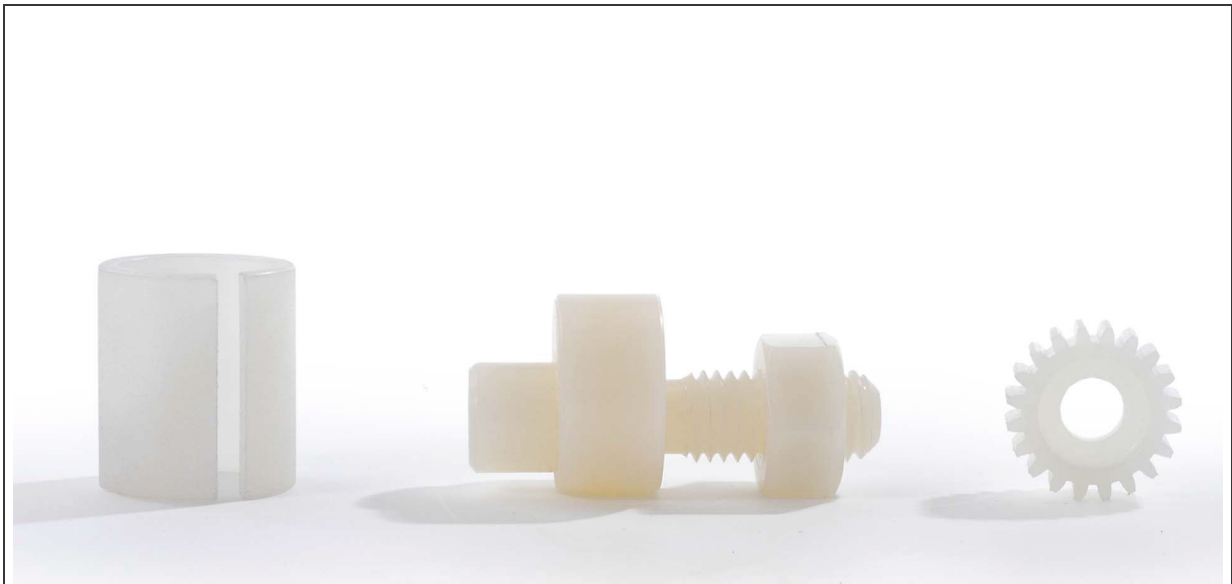


## Product information

### Wefapress PA 6

PA 6 is a polyamide produced in an extrusion process. It has a relatively high moisture absorption but lower wear resistance and dimensional stability as compared to PA 6 G. The characteristics of PA 6 are as follows:

- high impact strength



Standard colours:	natural, black
Special colours:	--
Form of delivery:	sheets, rods (catalogue semi finished products / conveyor systems)
Finished parts:	on request
Fields of application:	<ul style="list-style-type: none"><li>• components exposed to shock and impact</li><li>• gearwheels</li><li>• light-duty slide bearings</li><li>• chain guides etc.</li></ul>

## Technical Data Sheet

Material designation	<b>PA 6</b>		
Raw material	Polyamide 6		
Material colour(s)	natural / black		
<b>Properties</b>	Unit	Test method	Value
Molecular weight (average molar mass)	g/mol		
<b>Mechanical properties</b>			
Density	g/cm <sup>3</sup>	DIN 53479	1.14
Tensile strength	N/mm <sup>2</sup>	DIN 53455	70
Shore D hardness, 15s	D scale	DIN 53505	81
Ball indentation hardness, 30s	N/mm <sup>2</sup>	DIN ISO 2039 part 1	160
Ultimate tensile strength	N/mm <sup>2</sup>	DIN 53455	80 40*
Elongation at break	%	DIN ISO / R 527	>50
Modulus of elasticity	N/mm <sup>2</sup>	DIN 53457	2700
Notched impact strength (Charpy)	kJ/m <sup>2</sup>	DIN 53453	>3
Abrasion	%	Sand slurry method	
Coefficient of friction			0.38
<b>Thermal properties</b>			
Dimensional stability under heat	°C	DIN 53461	95
Vicat softening temperature	°C	DIN 53460	
Crystallite melting range	°C	DTA	218
Thermal conductivity at 23°C	W/m * K	DIN 52612	0.23
Specific heat at 23°C	kg/kJ * K		
Coefficient of linear expansion at 23°C	K <sup>-1</sup>	DIN 53752	0.8 * 10 <sup>-4</sup>
Application temperature (min.)	°C		-40
Application temperature (constant)	°C		100
Application temperature (max.)	°C		140
<b>Electrical properties</b>			
Volume resistivity	Ω cm	DIN 53482	10 <sup>12</sup>
Surface resistance	Ω	DIN 53482	10 <sup>10</sup>
Dielectric strength	kV/mm	DIN 53481	100
Relative permittivity	at 50 Hz	DIN 53485	3.7

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 subject to change.

Vreden, August 03