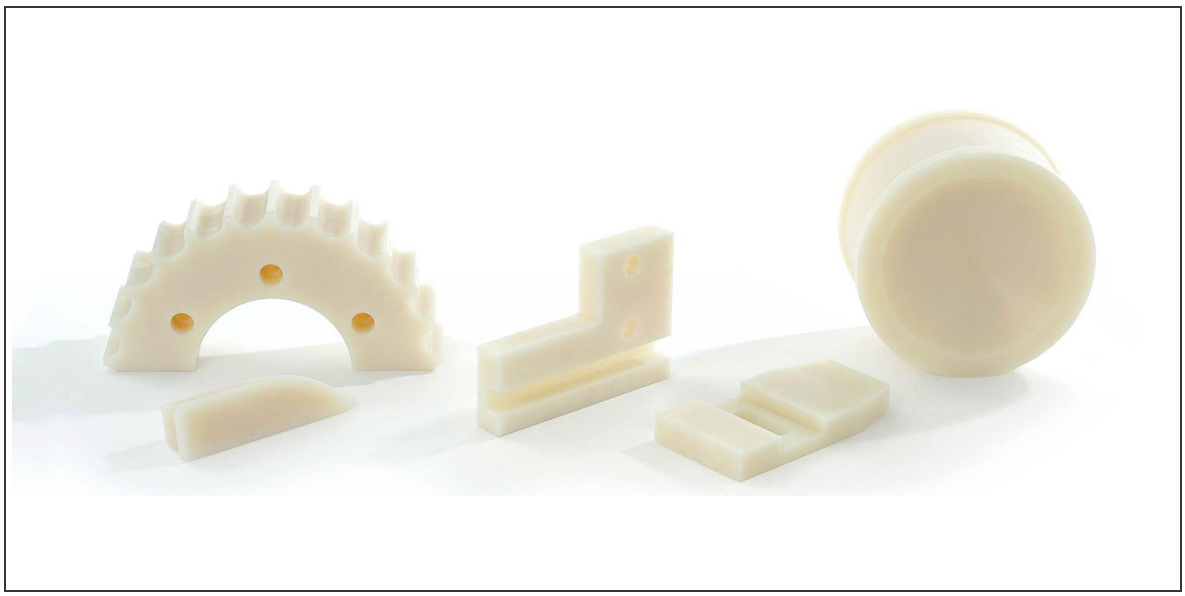
Product information

Wefapress PA 6 G

PA 6 G is a cast polyamide that is produced by direct polymerisation. It is available in almost any size. Compared to extruded polyamides it has better mechanical properties. The characteristics of PA 6 G are as follows:

- good abrasion and wear resistance
- high tensile strength and resistance to pressure
- good dimensional stability



Standard colours:	natural, black
Special colours:	--
Form of delivery:	sheets, rods (catalogue semi finished products / conveyor systems)
Finished parts:	on request

Fields of application:

- cam- and guide rollers
- rope rollers
- gearwheels
- slide bearings
- chain guides

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Technical Data Sheet

Material designation	PA 6 G		
Raw material	Cast-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	1.15
Tensile strength	N/mm^2	DIN 53455	
Shore D hardness, 15s	D scale	DIN 53505	
Ball indentation hardness, 30s	N/mm^2	DIN ISO 2039 part 1	160
Ultimate tensile strength	N/mm^2	DIN 53455	85 - 55
Elongation at break	%	DIN ISO / R 527	>50
Modulus of elasticity	N/mm^2	DIN 53457	3100
Notched impact strength (Charpy)	kJ/m^2	DIN 53453	>4
Abrasion	%	Sand slurry method	
Coefficient of friction			0.36
Thermal properties			
Dimensional stability under heat	°C	DIN 53461	
Vicat softening temperature	°C	DIN 53460	
Crystallite melting range	°C	DTA	220
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^{-1}	DIN 53752	0.8×10^{-4}
Application temperature (min.)	°C		-40
Application temperature (constant)	°C		100
Application temperature (max.)	°C		170
Electrical properties			
Volume resistivity	Ω cm	DIN 53482	10^{15}
Surface resistance	Ω	DIN 53482	10^{13}
Dielectric strength	kV/mm	DIN 53481	
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 subjekt to change.

Vreden, August 03

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