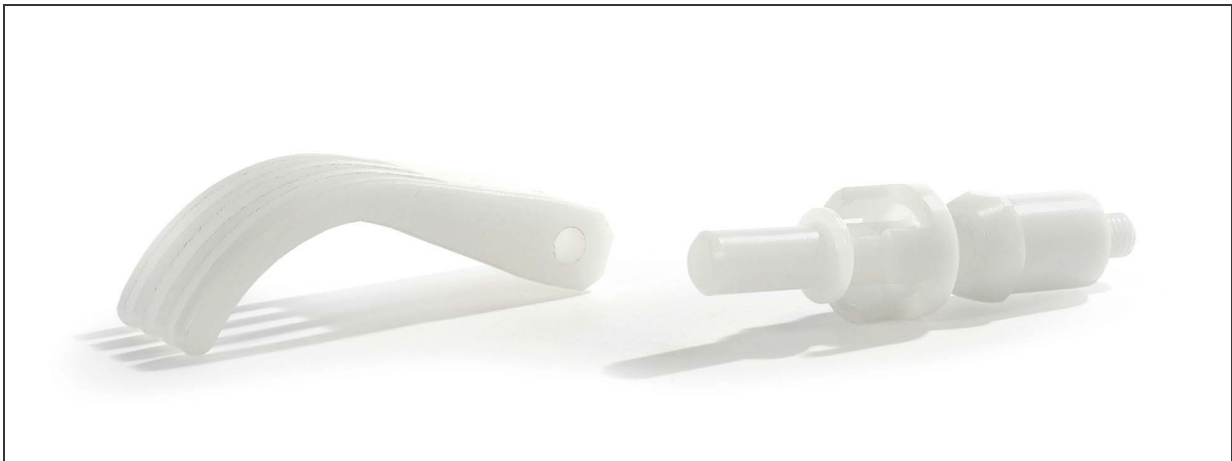


## Product information

### Wefapress POM

POM is a polyacetal which stands out for its very good mechanical properties. However, its wear resistance is lower compared to PA 6 G. The characteristics of POM are as follows:

- low moisture absorption
- high mechanical solidity and rigidity
- excellent tensile strength
- good sliding properties



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>• bearings and gearwheels</li><li>• insulating parts</li><li>• precision parts for the mechanical engineering</li></ul>

## Technical Data Sheet

Material designation	<b>POM</b>		
Raw material	Polyacetal		
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	1.42
Tensile strength	N/mm <sup>2</sup>	DIN 53455	
Shore D hardness, 15s	D scale	DIN 53505	85
Ball indentation hardness, 30s	N/mm <sup>2</sup>	DIN ISO 2039 part 1	150
Ultimate tensile strength	N/mm <sup>2</sup>	DIN 53455	70
Elongation at break	%	DIN ISO / R 527	>30
Modulus of elasticity	N/mm <sup>2</sup>	DIN 53457	3200
Notched impact strength (Charpy)	kJ/m <sup>2</sup>	DIN 53453	>10
Abrasion	%	Sand slurry method	
Coefficient of friction			0.32
<b>Thermal properties</b>			
Dimensional stability under heat	°C	DIN 53461	
Vicat softening temperature	°C	DIN 53460	
Crystallite melting range	°C	DTA	175
Thermal conductivity at 23°C	W/m * K	DIN 52612	0.31
Specific heat at 23°C	kg/kJ * K		1.46
Coefficient of linear expansion at 23°C	K <sup>-1</sup>	DIN 53752	1 x 10 <sup>-4</sup>
Application temperature (min.)	°C		-50
Application temperature (constant)	°C		100
Application temperature (max.)	°C		140
<b>Electrical properties</b>			
Volume resistivity	Ω cm	DIN 53482	10 <sup>15</sup>
Surface resistance	Ω	DIN 53482	10 <sup>13</sup>
Dielectric strength	kV/mm	DIN 53481	55
Relative permittivity	at 50 Hz	DIN 53485	3.6

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