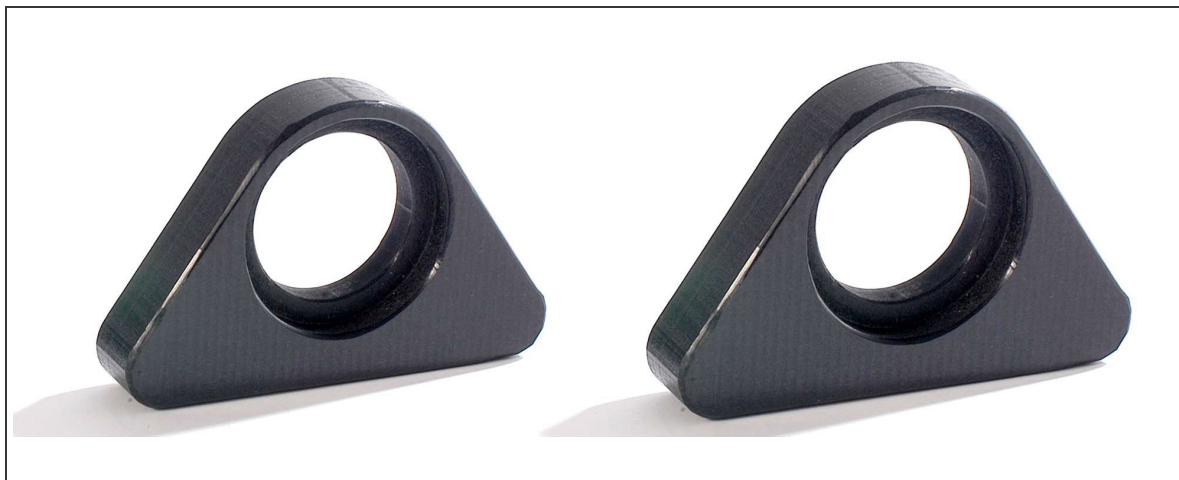


## Product information

### **Wefapress ST 9000 MOS<sup>2</sup>** (DIN 16972 TG 1)

St 9000 MOS<sup>2</sup> is a further development of the ultrahigh molecular weight low pressure polyethylene type ST 1000<sup>®</sup> natural. The molecular weight is approx. 9.2 million g/mol. The use of micro powder molybdenum sulphide (MOS<sup>2</sup>) has a positive effect on the sliding and abrasion properties. The characteristics of ST 9000 MOS<sup>2</sup> are as follows:

- high mechanical load bearing capacity
- best wear resistance and sliding properties
- lowest abrasion values
- high bending- and impact strength
- high chemical resistance



Standard colours: grey anthracite (similar to RAL 7016)

Special colours: --

Form of delivery: sheets, rods (pressed)  
(catalogue semi finished products)

Finished parts: on request

Fields of application:

- paper industry
- mechanical engineering
- transport and conveyor systems

## Technical Data Sheet

Material designation	<b>ST 9000 MOS<sup>2</sup></b>		
Raw material	PE_UHMW		
Material colour(s)	anthracite		
<b>Properties</b>	Unit	Test method	Value
Molecular weight (average molar mass)	g/mol		approx. 9.2 mill.
<b>Mechanical properties</b>			
Density	g/cm <sup>3</sup>	DIN 53479	0.96
Tensile strength	N/mm <sup>2</sup>	DIN 53455	21
Shore hardness, 15s	D scale	DIN 53505	68
Ball indentation hardness, 30s	N/mm <sup>2</sup>	DIN 53456	42
Ultimate tensile strength	N/mm <sup>2</sup>	DIN 53455	33
Elongation at break	%	DIN 53455	360
Notched impact strength (Charpy)	kJ/m <sup>2</sup>	DIN 53453	without break
Abrasion	%	Sand slurry method	~ 70
<b>Thermal properties</b>			
Coefficient of linear expansion at 23°C	K <sup>-1</sup>	DIN 52328	1.7*10 <sup>-4</sup>
Application temperature (min.)	°C		-269
Application temperature (max.)	°C		80
<b>Electrical properties</b>			
Volume resistivity	Ω cm	DIN 53482	<10 <sup>16</sup>
Surface resistance	Ω	DIN 53482	<10 <sup>13</sup>
Dielectric strength	kV/mm	DIN 53481	90

**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, October 2005