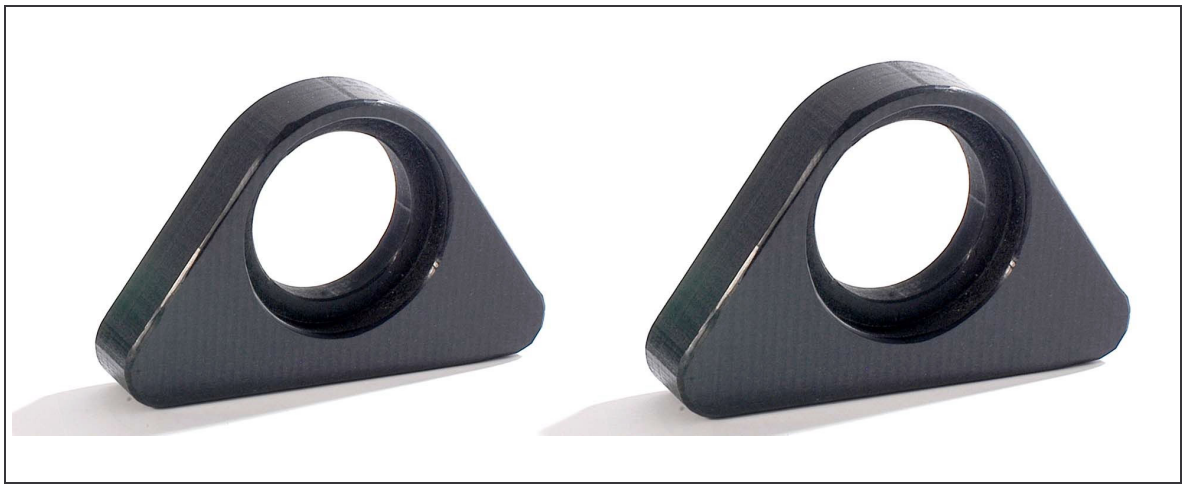
Product information

Wefapress ST 9000 MOS²

(DIN 16972 TG 1)

St 9000 MOS² is a further development of the ultrahigh molecular weight low pressure polyethylene type ST 1000® natural. The molecular weight is approx. 9.2 million g/mol. The use of micro powder molybdenum sulphide (MOS²) has a positive effect on the sliding and abrasion properties. The characteristics of ST 9000 MOS² are as follows:

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

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Technical Data Sheet

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

Vreden, October 2005

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