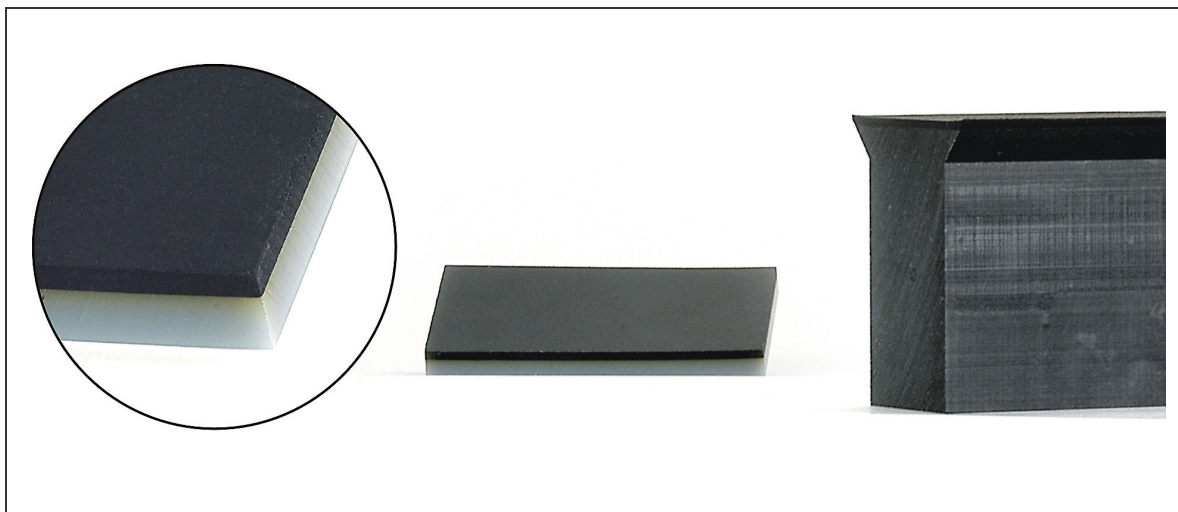


Product information

Wefapress ST 6000[®] protect (DIN 16972 TG1)

ST 6000[®] protect is a composite material produced by sandwich technique from ST1000[®] (PE-UHMW) and oil-resistant rubber (NBR). By the pressure sintering technique applied by us the two materials are connected together non-detachably. Thus the user has the possibility to adhere the gummed side. The characteristics of ST 6000[®] protect are as follows:

- properties like ST1000[®]
- good noise insulation
- antiadhesive performance
- high work absorption for shock- and impact demands



Standard colours:	grey blue
Special colours:	--
Form of delivery:	sheets (catalogue semi finished products)
Finished parts:	On request
Fields of application:	<ul style="list-style-type: none">• transport technology• coal-fired power stations• mining etc.

Technical Data Sheet

Material designation	ST 6000[®] protect		
Raw material	PE-UHMW		
Material colour(s)	grey blue		
Properties	Unit	Test method	Value
Molecular weight (average molar mass)	g/mol		~ 9.2 Mio
Mechanical properties			
Density	kg/m ³	ISO 1183	930
Tensile strength	MPa	ISO 527	700
Shore D hardness, 15s		ISO 868	60 - 65
Ball indentation hardness, 30s	N/mm ²	ISO 2039-1	30 - 35
Yield stress	MPa	ISO 527	≥ 17
Elongation at break	%	ISO 527	≥ 350
Notched impact strength (Charpy)	kJ/m ²	ISO 11542-2	≥ 25
Thermal properties			
Vicat softening temperature	°C	ISO 306	80
Melting temperature	°C	ISO 3146	135 - 138
Thermal conductivity at 23°C	W/m*K	ISO 52612	approx. 0.4
Coefficient of linear expansion at 23°C	K ⁻¹	ISO 11359	approx. 2 * 10 ⁻⁴
Application temperature (min.)	°C		-200
Application temperature (briefly)	°C		90
Application temperature (max.)	°C		80
Electrical properties			
Volume resistivity	Ω*m	IEC 60093	~<10 ¹⁵
Surface resistance	Ω	IEC 60093	~<10 ¹⁵
Dielectric strength	kV/mm	IEC60243	45

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