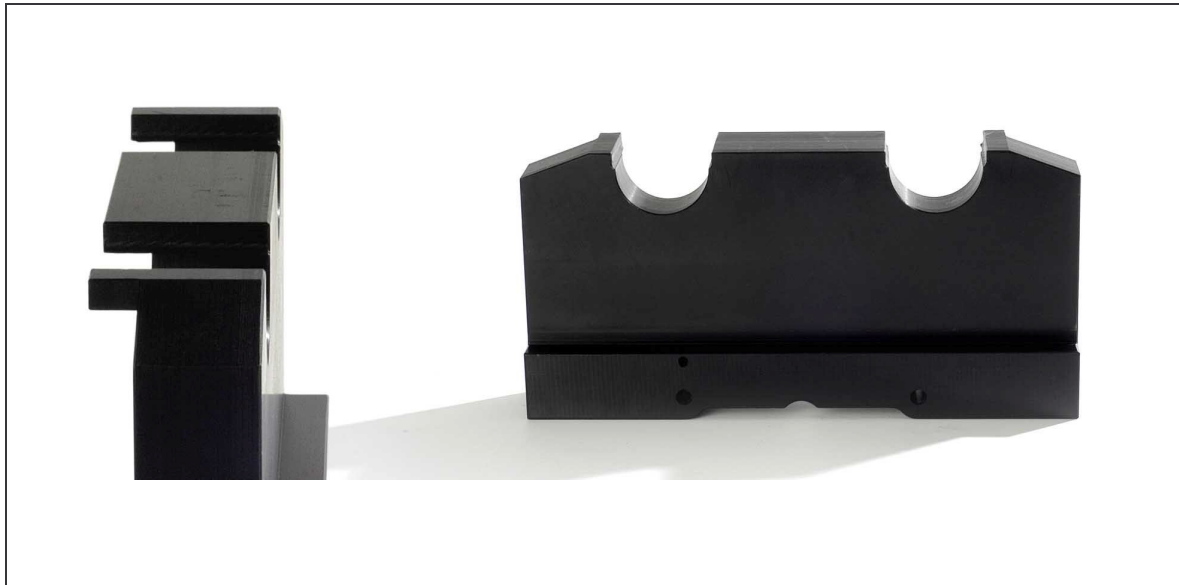


Product information

Wefapress ST 7000[®] AST (DIN 16972 TG 1)

ST 7000[®] AST is an ultrahigh molecular weight low pressure polyethylene with a molecular weight of approx. 10.5 million g/mol. By using specially selected additives it is possible to add a higher molecular weight and antistatic properties to the ST 1000[®] material. The characteristics of ST 7000[®] AST are as follows:

- antistatic
- better wear resistance and sliding properties compared with ST 6000[®] AST
- high bending- and impact strength
- highest cold resistance
- good chemical resistance and no moisture absorption



Standard colours:	black
Special colours:	--
Form of delivery:	sheets, rods (pressed) (catalogue semi finished products/ conveyor systems)
Finished parts:	on request
Fields of application:	<ul style="list-style-type: none">• chemical industry• mechanical engineering• transport and conveyor systems• aircraft industry

Technical Data Sheet

Material designation	ST 7000[®] AST		
Raw material			
Material colour(s)			
Properties	Unit	Test method	Value
Molecular weight (average molar mass)	g/mol		$\sim 10,5 \cdot 10^6$
Mechanical properties			
Density	g/cm ³	DIN 53479	93
Shore D hardness, 15s	d scale	ISO 868	65
Ball indentation hardness, 30s	N/mm ²	DIN ISO 2039 part 1	43
Abrasion	%	Sand slurry method	80
Thermal properties			
Vicat softening temperature	°C	ISO 306	88
Crystallite melting range	°C	DTA	130 - 135
Thermal conductivity at 23°C	W/m * K	DIN 52612	0.41
Coefficient of linear expansion at 23°C	K ⁻¹	DIN 53752	$\approx 2 \cdot 10^{-4}$
Electrical properties			
Volume resistivity	Ω cm	DIN 53482	$< 10^6$
Surface resistance	Ω	DIN 53482	$< 10^9$

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