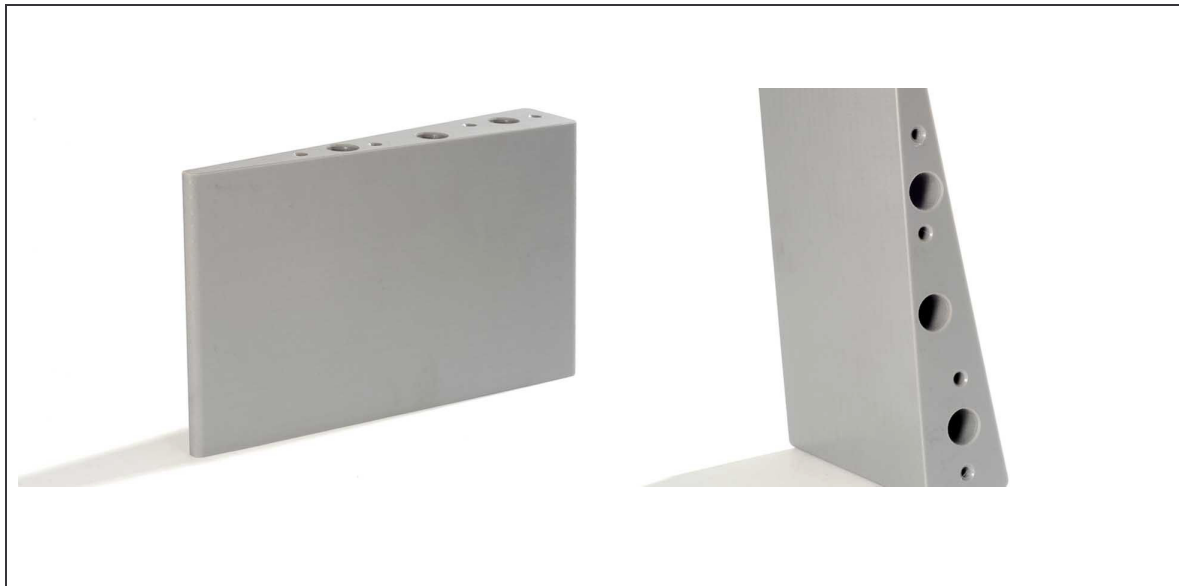


Product information

Wefapress US 9200[®] (DIN 16972 TG 1)

US 9200[®] is an ultrahigh molecular weight low pressure polyethylene with a molecular weight of approx. 9.2 million g/mol. Using specially selected biologically degradable oils and lubricants it is possible to enhance the wear properties of ST 1000[®]. The wear is reduced by up to 50 % by the use of US 9200[®]. The characteristics of US 9200[®] are as follows:

- physiologically harmless (BGA- and FDA registration)
- excellent wear resistance and good sliding properties
- high bending- and impact strength



Standard colours: RAL 7011 mouse-grey
Special colours: --
Form of delivery: sheets, rods (pressed)
(catalogue semi finished products)

Finished parts: on request

Fields of application:

- food industry
- mechanical engineering
- transport and conveyor systems
- bottling industry....

Technical Data Sheet

Material designation	US 9200[®]		
Raw material	PE-UHMW		
Material colour(s)	grey		
Properties	Unit	Test method	Value
Molecular weight (average molar mass)	g/mol		approx. 9.2 mill.
Mechanical properties			
Density	g/cm ³	DIN 53479	0.94
Tensile strength	N/mm ²	DIN 53455	18.4
Shore hardness, 15s	D scale	DIN 53505	65
Ball indentation hardness, 30s	N/mm ²	DIN ISO 2039 part 1	27.4
Elongation at break	%	DIN ISO / R 527	>360
Modulus of elasticity	N/mm ²	DIN 53457	700
Notched impact strength (Charpy)	kJ/m ²	DIN 53453	52.04
Abrasion	%	Sand slurry method	~70
Coefficient of friction			0.04
Thermal properties			
Dimensional stability under heat	°C	DIN 53461	47
Vicat softening temperature	°C	DIN 53460	79
Crystallite melting range	°C	DTA	130 ~135
Thermal conductivity at 23°C	W/m * K	DIN 52612	0.42
Specific heat at 23°C	kg/kJ * K		1.8
Coefficient of linear expansion at 23°C	K ⁻¹	DIN 53752	2 x 10 ⁻⁴
Application temperature (min.)	°C		-200
Application temperature (constant)	°C		80
Application temperature (max.)	°C		95

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