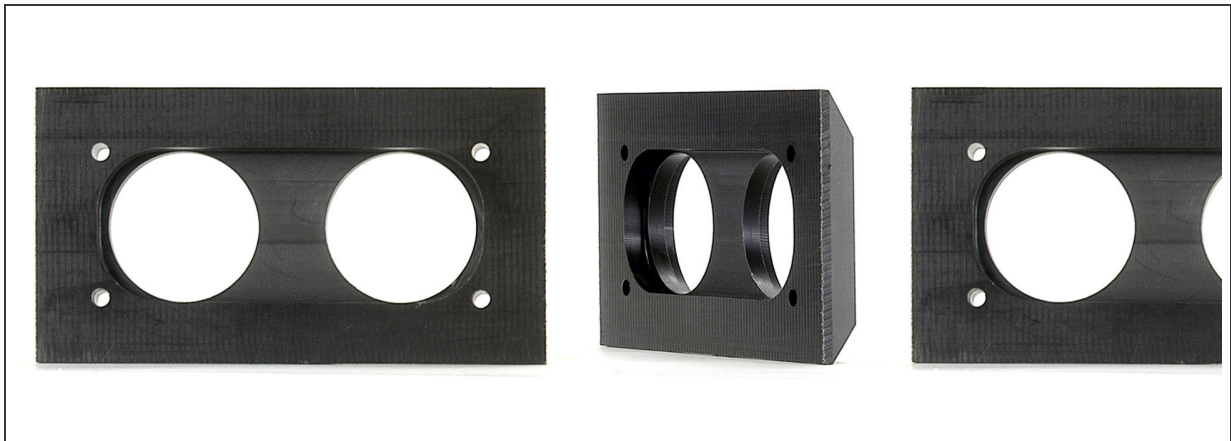


Product information

Wefapress A4[®]REG500

A4[®]REG500 is a low cost alternative to our A4[®]REG1000 type. As a regenerated material type it is based on a high molecular weight low pressure polyethylen with a portion of new material ST500[®] natural. The characteristics of A4[®]REG500 are as follows:

- good sliding properties and abrasion resistance
- good mechanical properties



Standard colours: black, green
Special colours: possible
Form of delivery: sheets, rods^(pressed)
(catalogue semi finished products)

Finished parts: on request

Fields of application:

- transport and conveyor systems
- beverage and bottling industry
- mechanical engineering

Technical Data Sheet

Material designation	A4[®]REG500		
Raw material	PE-HMW		
Material colour(s)	black / green		
Properties	Unit	Test method	Value
Molecular weight (average molar mass)	g/mol		approx. $0.5 \cdot 10^6$
Mechanical properties			
Density	kg/m ³	ISO 1183	approx. 940
Tensile test	MPa	ISO 527	800
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	≥ 16
Elongation at break	%	ISO 527	≥ 150
Coefficient of sliding friction			approx. 0.2
Notched impact strength (Charpy)	kJ/m ²	ISO 11542-2	≥ 12
Abrasion	%	Sand slurry method	~ 250
Thermal properties			
Melting temperature	°C	ISO 3146	135 - 138
Vicat softening temperature	°C	ISO 306	80
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. $2 \cdot 10^{-4}$
Application temperature (min.)	°C		-30
Application temperature (short time)	°C		90
Application temperature (max.)	°C		80
Electrical properties			
Volume resistivity	Ω * m	IEC 60093	< 10^{15}
Surface resistance	Ω	IEC 60093	< 10^{14}

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