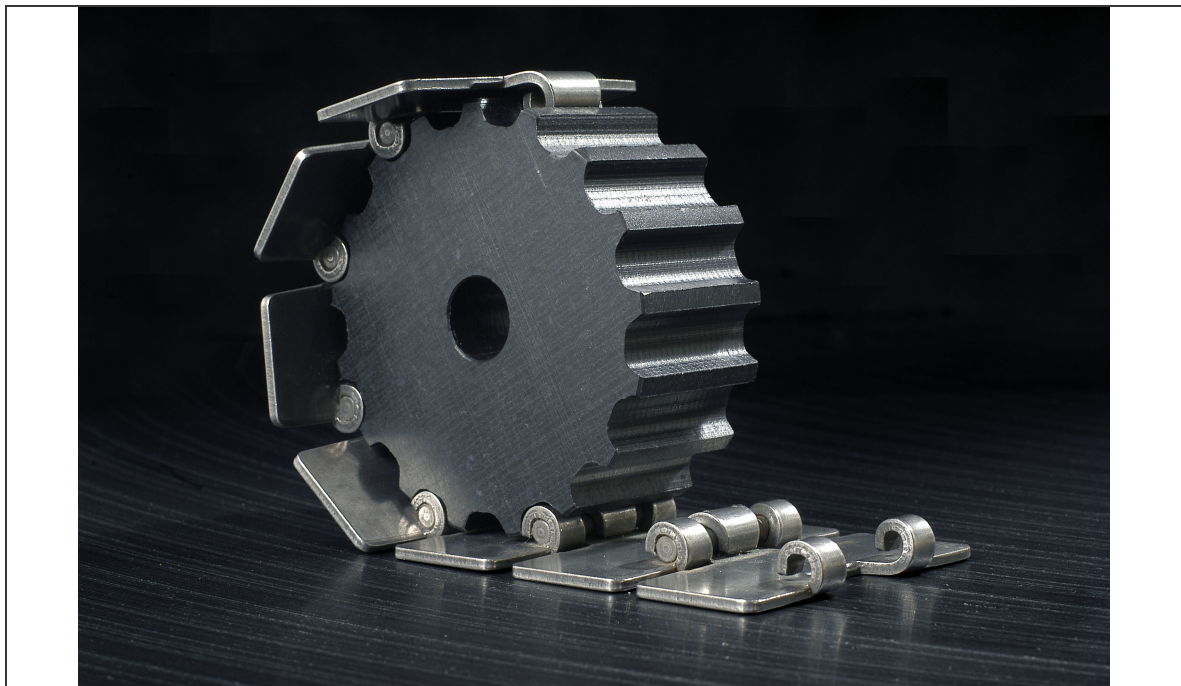


Product information

Wefapress A4[®] REG1000

A4[®] REG1000 is a regenerated material based on ultrahigh molecular weight low pressure polyethylene with a corresponding portion of new material. Due to this combination we have achieved a material at a favourable price and with miscellaneous application fields. Especially because of the cost-efficient price the material has proved itself. The characteristics of A4[®] REG1000 are as follows:

- excellent sliding properties and abrasion resistance
- excellent mechanical properties



Standard colours:

black, green

Special colours:

blue, yellow

Form of delivery:

sheets, rods

(catalogue semi finished products / conveyor systems)

Finished parts:

on request

Fields of application:

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

Technical Data Sheet

Material designation	A4[®]REG1000		
Raw material	PE-UHMW		
Material colour(s)	black / green		
Properties	Unit	Test method	Value
Molecular weight (average molar mass)	g/mol		~ 5 * 10 ⁶
Mechanical properties			
Density	g/cm ³	DIN 53479	0.94
Tensile strength	N/mm ²	DIN 53455	27
Shore D hardness, 15s	D scale	DIN 53505	64 - 68
Ball indentation hardness, 30s	N/mm ²	DIN ISO 2039 part 1	40
Ultimate tensile strength	N/mm ²	DIN 53455	30
Elongation at break	%	DIN ISO / R 527	200
Modulus of elasticity	N/mm ²	DIN 53457	900
Notched impact strength (Charpy)	kJ/m ²	DIN 53453	>30 -110
Abrasion	%	Sand slurry method	~130
Coefficient of friction			0.10 ~0.2
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		90
Electrical properties			
Volume resistivity	Ω cm	DIN 53482	<10 ¹⁵
Surface resistance	Ω	DIN 53482	<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