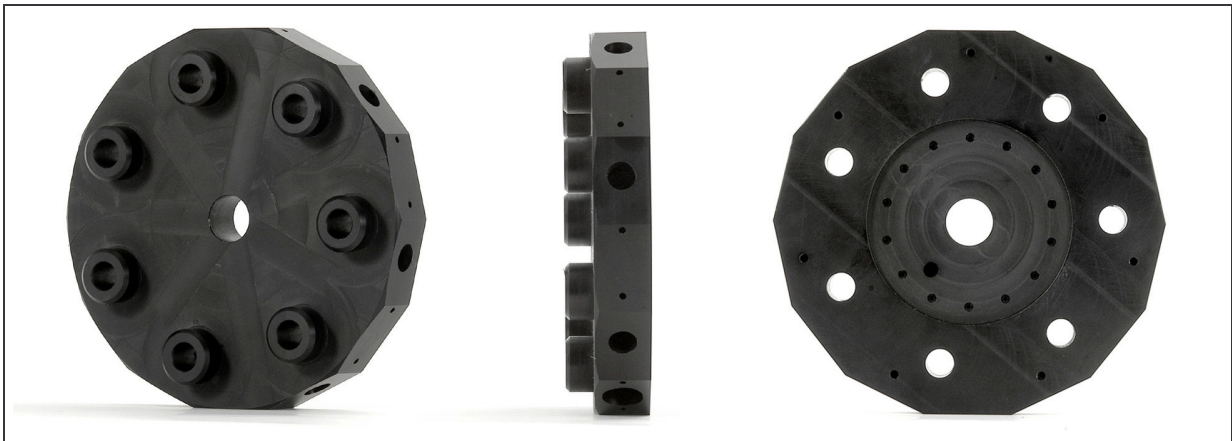


## Product information

### Wefapress A4<sup>®</sup> REG MOS<sup>2</sup>

A4<sup>®</sup> REG MOS<sup>2</sup> is a regenerated material based on ultrahigh molecular weight low pressure polyethylene with a corresponding portion of new material. By adding molybdenum disulfide the already very good sliding properties could be enhanced once again. The characteristics of A4<sup>®</sup> REG MOS<sup>2</sup> are as follows:

- excellent sliding properties and abrasion resistance
- excellent mechanical properties



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

## Technical Data Sheet

Material designation	<b>A4<sup>®</sup> REG MOS<sup>2</sup></b>		
Raw material	PE_UHMW		
Material colour(s)	black		
<b>Properties</b>	Unit	Test method	Value
Molecular weight (average molar mass)	g/mol		
<b>Mechanical properties</b>			
Density	g/cm <sup>3</sup>	DIN 53479	0.94
Tensile strength	N/mm <sup>2</sup>	DIN 53455	27
Shore D hardness, 15s	D scale	DIN 53505	64 - 68
Ball indentation hardness, 30s	N/mm <sup>2</sup>	DIN ISO 2039 Part 1	40
Ultimate tensile strength	N/mm <sup>2</sup>	DIN 53455	30
Elongation at break	%	DIN ISO / R 527	200
Modulus of elasticity	N/mm <sup>2</sup>	DIN 53457	900
Notched impact strength (Charpy)	kJ/m <sup>2</sup>	DIN 53453	> 30 - 110
Abrasion	%	Sand slurry method	~ 120
Coefficient of friction			~ 0.20
<b>Thermal properties</b>			
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 <sup>-1</sup>	DIN 53752	1.5 * 10 <sup>-4</sup>
Application temperature (min.)	°C		-200
Application temperature (constant)	°C		80
Application temperature (max.)	°C		90
<b>Electrical properties</b>			
Volume resistivity	Ω cm	DIN 53482	< 10 <sup>15</sup>
Surface resistance	Ω	DIN 53482	< 10 <sup>14</sup>

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