

Product information

Wefapress A4[®] FQ

A4[®] FQ coloured is a regenerated material based on ultrahigh molecular weight low pressure polyethylene with a low portion of new material. Due to further development A4[®] FQ is optically finer and its quality is much better compared with A4[®] coloured. The characteristics of A4[®] FQ are as follows:

- good sliding properties and abrasion resistance
- good mechanical properties
- good price-performance ratio



Standard colours:

black, coloured

Special colours:

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Form of delivery:

sheets, rods

(catalogue semi finished products / conveyor systems)

Finished parts:

on request

Fields of application:

- transport and conveyor systems
- mechanical engineering
- fender construction (harbour facilities)

Technical Data Sheet

Material designation	A4[®] FQ		
Raw material	UHMW-PE		
Material colour(s)	black		
Properties	Unit	Test method	Value
Molecular weight (average molar mass)	g/mol		9,2 * 10 ⁶
Mechanical properties			
Density	g/cm ³	DIN 53479	0.94
Tensile strength	N/mm ²	DIN 53455	≥ 20
Ball indentation hardness, 30s	N/mm ²	DIN ISO 2039 part 1	38
Elongation at break	%	DIN ISO / R 527	> 150
Notched impact strength (Charpy)	mJ/mm ²	DIN 53453	≥ 80
Abrasion	%	Sand slurry method	125 ± 25
Thermal properties			
Dimensional stability under heat	°C	DIN 53461	47
Vicat softening temperature	°C	DIN 53460	79
Thermal conductivity at 23°C	W/m * K	DIN 52612	approx. 0.4
Coefficient of linear expansion at 23°C	K ⁻¹	DIN 53752	≈ 2 * 10 ⁻⁴
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