

Product information

Wefapress A4[®]

A4[®] is a regenerated material based on ultrahigh molecular weight low pressure polyethylene with a low portion of new material. Due to this combination we have achieved a material at a favourable price and with miscellaneous application fields. The characteristics of A4[®] are as follows:

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



Standard colours:

multicolour

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
- production of prefabricated concrete components
- harbour construction
- coal-fired power stations
- bunker linings

Technical Data Sheet

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|---|-------------------|---------------------|----------------------|
| Material designation | A4 [®] | | |
| Raw material | | | |
| Material colour(s) | multicolour | | |
| Properties | Unit | Test method | Value |
| Molecular weight (average molar mass) | g/mol | | |
| Mechanical properties | | | |
| Density | g/cm ³ | DIN 53479 | 0.95 |
| Tensile strength | N/mm ² | DIN 53455 | 18 |
| 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 | 37 |
| Elongation at break | % | DIN ISO / R 527 | max. 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 | ~150 |
| Coefficient of friction | | | ~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 |
| Dielectric strength | kV/mm | DIN 53481 | 45 |

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