



Wefapress® A4® FQ

Standard colour(s): black

Special colour(s): –

Fields of application:

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

Properties:

- good value for money
- low abrasion
- good sliding properties
- good mechanical properties

Material designation		A4® FQ	
Raw material	PE-UHMW		
Material colour(s)	black		
Properties	Unit	Test method	Value
Molecular weight (average molar mass)	g/mol		
Mechanical properties			
Density	g/cm ³	DIN 53479	0,96
Tensile strength	N/mm ²	DIN 53455	≥ 20
Shore D hardness, 15s - Value	Skala D	DIN 53505	64 – 68
Ball indentation hardness, 30s - Value	N/mm ²	DIN ISO 2039 Part 1	38
Ultimate tensile strength	N/mm ²	DIN 53455	30
Elongation at break	%	DIN ISO / R 527	> 150
Modulus of elasticity	N/mm ²	DIN 53457	900
Notched impact strength (Charpy)	kJ/m ²	DIN 53453	≥ 80
Abrasion	%	Sand slurry method	125 ± 25
Coefficient of friction	μ		0,2
Thermal properties			
Dimensional stability under heat	°C	DIN 53461	47
Vicat softening temperature	°C	DIN 53460	79
Crystalline melting range	°C	DTA	130 – 135
Thermal conductivity at 23 °C	W/ (K * m)	DIN 52612	~ 0,4
Specific heat at 23 °C	kJ/ (K * Kg)		1,8
Coefficient of linear expansion at 23 °C	10 ⁻⁵ * (1/K)	DIN 53752	20
Fire behaviour		UL 94	HB
Application temperature (min.)	°C		- 200
Application temperature (constant)	°C		+ 80
Moisture absorption	%		< 0,01
Electrical properties			
Specific volume resistance	Ω * cm	DIN 53482	> 10 ¹⁵
Surface resistance	Ω	DIN 53482	> 10 ¹⁴
Dielectric strength	kV/mm	DIN 53481	40
Dielectric constant at 50 Hz		DIN 53485	