



Wefapress® St 7000® FRAS (DIN 16972 TG1)

Standard colour(s): black

Special colour(s): –

Fields of application:

- mining
- building industry
- mechanical engineering

- Properties:**
 - flame retardant
 - non-halogen
 - uv-stabilized
 - antistatic
 - low abrasion

Material designation		St 7000® FRAS		
Properties	Unit	Test method		Value
Molecular weight (average molar mass)		g/mol		~ 5 Mio.
Mechanical properties				
Density	g/cm ³	DIN 53479		1,04
Tensile strength	N/mm ²	DIN 53455		
Shore D hardness, 15s - Value	Skala D	DIN 53505		60 – 68
Ball indentation hardness, 30s - Value	N/mm ²	DIN ISO 2039 Part 1		~ 42
Ultimate tensile strength	N/mm ²	DIN 53455		
Elongation at break	%	DIN ISO / R 527		≥ 150
Modulus of elasticity	N/mm ²	DIN 53457		< 890
Notched impact strength (Sharry)	kJ/m ²	DIN 53453		80
Abrasion	%	Sand slurry method		~ 130
Coefficient of friction	μ			~ 0,25
Thermal properties				
Dimensional stability under heat	°C	DIN 53461		
Vicat softening temperature	°C	DIN 53460		80
Crystalline melting range	°C	DTA		135 – 138
Thermal conductivity at 23 °C	W/ (K * m)	DIN 52612		~ 0,4
Specific heat at 23 °C	kJ/ (K * Kg)			~ 0,4
Coefficient of linear expansion at 23 °C	10 ⁻⁵ * (1/K)	DIN 53752		~ 20
Fire behaviour		UL 94		V - 0
Application temperature (min.)	°C			- 200
Application temperature (constant)	°C			+ 80
Moisture absorption	%			< 0,01
Electrical properties				
Specific volume resistance	Ω * cm	DIN 53482		< 10 ⁹
Surface resistance	Ω	DIN 53482		< 10 ⁷
Dielectric strength	kV/mm	DIN 53481		
Dielectric constant at 50 Hz		DIN 53485		