



Wefapress® St 4000® ATEX (DIN 16972 TG1)

Standard colour(s): black

Special colour(s): –

Fields of application:

- chemical industry
- mechanical engineering
- power stations
- explosion protected equipment
- aircraft industry
- laboratory construction

Properties:

- meets ATEX requirements
- electrically conductive
- high bending- and impact strength
- good cold resistance
- good chemical resistance

Material designation		St 4000® ATEX			
Properties	Unit	Test method	Value		
Molecular weight (average molar mass)	g/mol			~ 9,2 Mio.	
Mechanical properties					
Density	g/cm³	DIN 53479	0,982		
Tensile strength	N/mm²	DIN 53455	25		
Shore D hardness, 15s - Value	Skala D	DIN 53505	64 – 70		
Ball indentation hardness, 30s - Value	N/mm²	DIN ISO 2039 Part 1	38		
Ultimate tensile strength	N/mm²	DIN 53455	36		
Elongation at break	%	DIN ISO / R 527	350		
Modulus of elasticity	N/mm²	DIN 53457	700		
Notched impact strength (Sharry)	kJ/m²	DIN 53453	> 70 – 130		
Abrasion	%	Sand slurry method	~ 110		
Coefficient of friction	μ			0,25	
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	0,42		
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 IEC 60093	< 10⁸		
Surface resistance	Ω	DIN IEC 60093	< 10⁹		
Dielectric strength	kV/mm	DIN 53481			
Dielectric constant at 50 Hz			DIN 53485		

Test certificate „TÜV Nord YEX 550794“