



Wefapress® St 7000® AMB (DIN 16972 TG1/TG2)

Standard colour(s): natural

Special colour(s): –

Fields of application:

- medical technique
- mechanical engineering
- food industry
- laboratory construction

Properties:

- antimicrobial finish
- low abrasion
- high bending and impact strength
- good cold resistance

Material designation		St 7000® AMB		
Properties	Unit	Test method	Value	
Molecular weight (average molar mass)		g/mol		~ 5 - 9,2 Mio.
Mechanical properties				
Density	g/cm³	DIN 53479	≥ 0,960	
Tensile strength	N/mm²	DIN 53455		
Shore D hardness, 15s - Value	Skala D	DIN 53505	60 – 65	
Ball indentation hardness, 30s - Value	N/mm²	DIN ISO 2039 Part 1	30 – 35	
Ultimate tensile strength	N/mm²	DIN 53455		
Elongation at break	%	DIN ISO / R 527	≥ 300	
Modulus of elasticity	N/mm²	DIN 53457		
Notched impact strength (Sharry)	kJ/m²	DIN 53453	≥ 80	
Abrasion	%	Sand slurry method	100	
Coefficient of friction	μ			
Thermal properties				
Dimensional stability under heat	°C	DIN 53461	135 - 138	
Vicat softening temperature	°C	DIN 53460	80	
Crystalline melting range	°C	DTA		
Thermal conductivity at 23 °C	W/ (K * m)	DIN 52612	~ 0,4	
Specific heat at 23 °C	kJ/ (K * Kg)			
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	> 10¹²	
Surface resistance	Ω	DIN 53482	> 10¹²	
Dielectric strength	kV/mm	DIN 53481	45	
Dielectric constant at 50 Hz		DIN 53485	2,1	

• approved for foodstuffs according to FDA Guidelines 21CFR177.1520 and 21 CFR178.3297