

# Technical data

Properties		Unit	Values WA
<b>Mechanical properties</b>			
Apparent density*	DIN 53479/ISO 1183	g/cm <sup>3</sup>	~ 1,43
Tensile stress at yield (tensile strength)	DIN 53455/ISO 527	MPa	≥ 55
Elongation at tear	DIN 53455/ISO 527	%	≥ 15
Flexural strength	DIN 53452/ISO 178	MPa	≥ 80
Compressive strength	DIN 53454/ISO 3605	MPa	≥ 70
Modulus of elasticity	DIN 53457/ISO 527-2/1A/50	MPa	≥ 3000
Notched impact strength	DIN 53453/ISO 179-1ePA	KJ/m <sup>2</sup>	≥ 4
Impact strength	DIN 53453/ISO 179	KJ/m <sup>2</sup>	
	0 °C		no failure
	-20 °C		-
	-30 °C		-
	-40 °C		-
Ball indentation hardness (358 N/30 s)	DIN 53456/ISO 2039	MPa	~ 100
Shore hardness D	DIN 53505		82
<b>Thermal properties</b>			
Vicat softening temperature	DIN 53460/ISO 306 (process B50)	°C	≥ 75
Deflection temperature	DIN 53461/ISO 75	°C	~ 68
Coefficient of linear thermal expansion from -30 °C to +50 °C	(process Ae) DIN 53752	mm/mK	0.08
Thermal conductivity from 0 °C to +60 °C	DIN 52612	W/mK	0.16
<b>Electrical properties</b>			
Dielectric constant E <sub>r</sub> (at 1 kHz)	VDE 0303 T4	-	3.4
Dielectric dissipation factor tan δ (at 1 kHz)	VDE 0303 T4	-	0.016
Surface resistance	DIN VDE 0303 T30/ DIN IEC 93	Ω	> 10 <sup>15</sup>
Volume resistivity	DIN VDE 0303 T30/ DIN IEC 93	Ω · m	> 10 <sup>14</sup>
Dielectric strength	DIN VDE 0303 T21 1 mm sheet	KV/mm	≥ 23
Tracking resistance	DIN IEC 112	Grade	CTI 600
Arc resistance	DIN VDE 0303 T5	Ident. No.	2.2.2.2
<b>Other properties</b>			
Water absorption after 7 days	DIN 53495	%	< 0.08
Fire behaviour	DIN 4102 - B 1		1-3 mm
	NFP 92-501/M 1 (F)		1-2 mm
	UL 94 (USA) File E100599		≥ 1 mm
	fire charac. (CH) 5.2		-
	CSE-RF2/75 A (I) EG/VO 1935/2004	Class 1	-
Physiological evaluation			————— generally recognised as safe —————

\* These are standard values which apply to an average density.

Minor variations are possible depending on the color. Subject to change without prior notice.