

TECHNICAL DATA

	Norm	Unit	Value				
			M	D	ES	H	WA
Mechanical properties							
Bulk density*	DIN 53479 / ISO 1183	g/cm ³	~ 1.43	~ 1.43	~ 1.43	~ 1.43	~ 1.43
Yield stress (tensile strength)	DIN 53455 / ISO 527	MPa	> 45	≥ 50	≥ 48	≥ 45	≥ 55
Elongation at tear	DIN 53455 / ISO 527	%	> 20	≥ 15	≥ 20	≥ 20	≥ 15
Flexural strength	DIN 53452 / ISO 178	MPa	≥ 80	≥ 75	≥ 75	≥ 70	≥ 80
Compressive strength	DIN 53454 / ISO 3605	MPa	≥ 70	≥ 65	≥ 65	≥ 60	≥ 70
Modulus of elasticity	DIN 53457 / ISO 527-2/1A/50	MPa	> 2,500	≥ 2,500	≥ 2,500	≥ 2,500	≥ 3,000
Notched impact strength	DIN 53453 / ISO 179-1ePA	kJ/m ²	≥ 4	≥ 6	≥ 6	≥ 8	≥ 4
Impact resistance	DIN 53453 / ISO 179	kJ/m ²					
	0 °C		without rupture	without rupture	without rupture	without rupture	without rupture
	-20 °C		-	without rupture	without rupture	without rupture	-
	-30 °C		-	-	without rupture	without rupture	-
	-40 °C		-	-	-	without rupture	-
Ball indentation hardness (358N/30s)	DIN 53456 / ISO 2039	MPa	~ 100	~ 90	~ 90	~ 90	~ 100
Shore hardness D	DIN 53505		78	80	80	78	82
Thermal properties							
Vicat softening temperature	DIN 53460 / ISO 306 (B50 method)	°C	≥ 75	≥ 72	≥ 72	≥ 72	≥ 75
Dimensional stability when exposed	DIN 53461 / ISO 75	°C	~ 68	~ 66	~ 66	~ 66	~ 68
Coefficient of linear expansion -30 °C to + 50 °C	DIN 53752 (Ae method)	mm/mK	0.08	0.08	0.08	0.08	0.08
Thermal conductivity in the range from -0 °C to + 60 °C	DIN 52612	W/mK	0.16	0.16	0.16	0.16	0.16
Electrical properties							
Dielectric constant Er (at 1 kHz)	VDE 0303 T4	-	3.4	3.4	3.4	3.4	3.4
Dielectric loss factor tan δ (at 1 kHz)	VDE 0303 T4	-	0.016	0.016	0.016	0.016	0.016
Surface resistivity	DIN VDE 0303 T30 DIN IEC 93	Ω	> 10 ¹⁵	> 10 ¹⁵	> 10 ¹⁵	> 10 ¹⁵	> 10 ¹⁵
Volume resistivity	DIN VDE 0303 T30 DIN IEC 93	Ω · m	> 10 ¹⁴	> 10 ¹⁴	> 10 ¹⁴	> 10 ¹⁴	> 10 ¹⁴
Dielectric strength	DIN VDE 0303 T21 1 mm sheet	kV/mm	≥ 23	≥ 27	≥ 27	≥ 27	≥ 23
Tracking	DIN IEC 112	Phase	CTI 600	CTI 600	CTI 600	CTI 600	CTI 600
Arc resistance	DIN VDE 0303 T5	Indicator	2.2.2.2	2.2.2.2	2.2.2.2	2.2.2.2	2.2.2.2
Other characteristics							
Water absorption after 7 days	DIN 53495	%	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08
Fire behaviour	DIN 4102 - B 1		-	1-2 mm	1-2 mm	-	1-3 mm
	NFP 92-501/M 1 (F)		1-6 mm	1-2 mm	1-2 mm	-	1-2 mm
	UL 94 (USA) File E100599		-	-	≥ 1 mm	-	≥ 1 mm
	Fire Index (CH) 5.2		-	-	-	≥ 1 mm	-
	CSE-RF2/75 A (I) EC/VO 1935/2004	Class 1	-	-	1-3 mm	-	-
Physiological assessment			----- not harmful -----				

*These figures are approximate values for average bulk density.