Technical data Cleanpanel panels

Properties		Unit	Values
Mechanical properties			
Apparent density*	DIN 53479/ISO 1183	g/cm3	~ 1,43
Tensile stress at yield (tensile strength)	DIN 53455/ISO 527	N/mm2	≥ 44
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	N/mm2	≥ 2200
Notched impact strength	DIN 53453/ISO 179-1ePA	KJ/m2	≥ 20
Impact strength	DIN 53453/ISO 179	KJ/m2	
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
Thermal properties			
Vicat softening temperature	DIN 53460/ISO 306	°C	≥ 78
	(process B50)		
Deflection temperature	DIN 53461/ISO 75	°C	~ 68
Coefficient of linear thermal expansion	(process Ae)	mm/mK	0.08
from –30 °C to +50 °C	DIN 53752		
Thermal conductivity from 0 °C to +60 °C	DIN 52612	W/mK	0.16
Floatrical proportion			
Electrical properties	VDE 0202 T4		2.4
Dielectric constant Er (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/	Ω	10 ¹⁵
Surface resistance	DIN VDE 0303 130/	\$2	10
Volume resistivity	DIN VDE 0303 T30/	Ω·m	10 ¹⁴
Volume resistivity	DIN IEC 93	52 111	10
Dielectric strength	DIN VDE 0303 T21	KV/mm	≥ 23
Dielega ie au en Ban	1 mm sheet	,	
Tracking resistance	DIN IEC 112	Grade	CTI 600
Arc resistance	DIN VDE 0303 T5	Ident. No.	2.2.2.2
Other properties			
Water absorption after 7 days	DIN 53495	%	< 0.08
Fire behaviour	DIN 4102- B 1	_	1–3 mm
	UL 94 (USA) File E100599	_	≥ 1 mm
		Class 1	