

Technical Values

For applications requiring more detailed technical data, please contact our specialists.

Properties	Testing Method	Unit	Values	Values
Mechanical				
Apparent density*	DIN 53 479	g/cm ²	0.55	0.65
Tensile strength	DIN 53 455	N/mm ²	12	20
Elongation at tear	DIN 53 455	%	15	15
Flexural strength	DIN 53 452	N/mm ²	20	30
Compressive strength (range of elasticity)	DIN 53 421 (serving as a basis)	N/mm ²	>3.0	>3.0
Compressive stress at 30%	DIN 53 421 (serving as a basis)	N/mm ²	>6.5	>13
Modulus of elasticity	DIN 53 457 (similar to)	N/mm	850	1100
Impact strength	DIN 53 453	kJ/m ²	~ 15	~ 10
Shore hardness D	DIN 53 505		55	45
Thermal				
Vicat softening temp.	DIN 53 460	°C	78	75
Vicat A	DIN 53 461	°C	68	60
Temp of deflection under load acc. To ISO 75 (HDT)				
Coefficient of linear thermal expansion (-30°C to +50°C)	DIN 53 752	mm/m °C	0.08	0.08
Thermal conductivity (0°C to +60°C)	DIN 52 616	W/mK	0.06	0.10
Thermal Resistance R — 0.5" thick	C518		.948	
Thermal Resistance R per Inch — 0.5" thick	C518		2.17	
Electrical				
Surface resistance	DIN VDE 0303 T3		6 • 10 ¹⁴	> 1 • 10 ¹⁴
Volume resistivity	DIN VDE 0303 T3	Ω cm	>10 ¹⁶	4 • 10 ¹⁵
Dielectric constant E _d	DIN VDE 0303 T2	kV/mm	5.0	16
Dielectric constant E _r (at 1 kHz)	DIN 53 483 T2		1.6 ± 0.5	2.5
Dielectric dissipation factor tan (at kHz)	DIN 53 483 T2		0.012	0.016
Comparative figure of tracking	DIN IEC 112		CTI 600	CTI 600

Technical Values, Cont.

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Properties	Testing Method	Unit	Values	Values
Other				
Fire behavior (UL 94 & UL 1975 re-testing in progress)	UL 94 (USA)	≥2 mm (3 - 6 mm colored)		VO
Water absorption after 7 days	DIN 53 495	%	<0.3	<0.3
Flame Spread Index (Re-testing in progress)				
Komatex — White	E84-03		45	
Komatex — Black	E84-03		10	
Komatex — Color	E84-03		15	
Smoke Developed Index (Re-testing in progress)				
Komatex — White	E84-03		850	
Komatex — Black	E84-03		400	
Komatex — Color	E84-03		350	
Allowable for contact with foodstuff				No

*These are standard values that apply to an average density. Small variations depending on the sheet thickness are possible. Technical specifications are subject to change.