

PROPERTIES

Kind	Item		Method	Unit	Value
Mechanical	Thickness		*	mm	10--30
	Density		ASTM D792	g/cm ³	0.55±0.03
	Tensile strength	Lengthways	ASTM D638	kg/cm ³	110
		Crosswise			80
	Flexural strength	Lengthways	ASTM D790	kg/cm ³	240
		Crosswise			180
	Compressive strength		ASTM D695	kg/cm ³	100
	Compressive stress for a compressive strain of 30%		ASTM D695	kg/cm ³	180
	Modulus of elasticity		ASTM D638	kg/cm ³	10000
	Hardness		ASTM D676	SHORE D	50-80
	Impact strength (+20℃)		ASTM D256	kg.cm/cm ³	1.5
Thermal	Coefficient of linear thermal expansion (from -30℃ to 50℃)		ASTM D696	mm/m℃	0.07
	Heating deflection temperature		ASTM D648	℃	55
	Thermal conductivity (from 0℃ to 60℃)		DIN 52616	w/mk	0.03-0.07
	Rate of heat transfer		DIN 52616	w/(m ² k)	1.2-3.0
Electrical	Volume resistivity		ASTM D257	Ω.cm	2.0 x 10 ¹⁴
	Surface resistance		ASTM D257	Ω	9.0 x 10 ¹⁴
	Dielectric strength		JI 6911	kv/cm	48
Others	Rw		DIN 52210/84	dB	35
	Water absorption after 7 days		ASTM D570	%	0.5
	Fire behaviour		UL-94	/	V-0