

## PROPERTIES

Kind	Item	Method	Unit	Value	
Mechanical	Thickness	*	mm	10--30	
	Density	ASTM D792	g/cm <sup>3</sup>	0.55±0.03	
	Tensile strength	Lengthways	ASTM D638	kg/cm <sup>3</sup>	110
		Crosswise			80
	Flexural strength	Lengthways	ASTM D790	kg/cm <sup>3</sup>	240
		Crosswise			180
	Compressive strength	ASTM D695	kg/cm <sup>3</sup>	100	
	Compressive stress for a compressive strain of 30%	ASTM D695	kg/cm <sup>3</sup>	180	
	Modulus of elasticity	ASTM D638	kg/cm <sup>3</sup>	10000	
	Hardness	ASTM D676	SHORE D	50-80	
Impact strength (+20°C)	ASTM D256	kg.cm/cm <sup>3</sup>	1.5		
Thermal	Coefficient of linear thermal expansion (from -30°C to 50°C)	ASTM D696	mm/m°C	0.07	
	Heating deflection temperature	ASTM D648	°C	55	
	Thermal conductivity (from 0°C to 60°C)	DIN 52616	w/mk	0.03-0.07	
	Rate of heat transfer	DIN 52616	w/(m <sup>2</sup> k)	1.2-3.0	
Electrical	Volume resistivity	ASTM D257	Ω.cm	2.0 x 10 <sup>14</sup>	
	Surface resistance	ASTM D257	Ω	9.0 x 10 <sup>14</sup>	
	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	