

Typical Properties

PROPERTY	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 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°C)	ASTM D256	kg.cm/cm ³	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 ² k)	1.2-3.0	
ELECTRICAL	Volume resistivity	ASTM D257	Ω.cm	2.0x10 ¹⁴	
	Surface resistance	ASTM D257	Ω	9.0x10 ¹⁴	
	Dielectric strength	JI6911	kv/cm	48	
OTHER	Rw	DIN 52210/84	dB	35	
	Water absorption after 7 days	ASTM D570	%	0.5	
	Fire behavior	UL-94	/	V-0	

ROHS DIRECTIVE

Our products meet the requirements of the ROHS directives of hazardous substances. There is no lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBBs), polybrominated diphenylethers (PBDEs), formaldehyde, CFCs, asbestos, plasticizer nor silicone.