

**Raw Material** Epoxy Resin  
**Temperature range:** -60°C – +120°C  
**Material Density:** 1.8 g/cm<sup>3</sup>

## Material data

Property at room temperature	Standard spring configuration (see sketch)	Unidirectional (100% oriented lengthwise)	Crossply (50% length- and 50% crossways oriented)
Flexural strength [MPa]	932 ± 5%	1151 ± 5%	760 ± 5%
Tensile strength [MPa]	800 ± 5%	960 ± 5%	480 ± 5%
Compressive strength [MPa]	724 ± 5%	880 ± 5%	690 ± 5%
Modulus of elasticity [MPa]	28,000 ± 5%	38,000 ± 5%	24,000 ± 5%
BARCOL-hardness	70 ± 5%	70 ± 5%	70 ± 5%
Max. bending stress [MPa] (Tensile-compressive-fatigue strength)	138	158	120
Coefficient of friction S-Ply-steel	0.17μ	0.17μ	0.17μ
Coefficient of friction S-Ply-aluminium	0.18μ	0.18μ	0.18μ
Poisson number	0.074	–	–

## Electrical properties

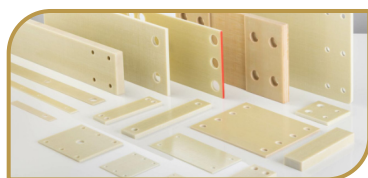
Property	Conditioned R.H.	Temp. of test	Frequency					
			60Hz	1KHz	100KHz	1MHz	10MHz	30MHz
Dissipation factor	50%	23°C	0.0052	0.006	0.014	0.017	0.016	0.023
	50%	60°C		0.0087				
	50%	120°C		0.0033				
	50%	150°C		0.13				
	90%	23°C	0.036	0.05	0.032	0.019	0.024	0.033
	90%	60°C		0.054				
Dielectric constant	50%	23°C	5.3	5.2	5.1	4.8	4.7	4.4
	50%	60°C		5.7				
	50%	120°C		6.1				
	50%	150°C		7.3				
	90%	23°C	7.0	6.5	6.8			
	90%	60°C		6.8				

### Applications:

- Spacer Plates.
- Temperature Resistant Parts
- Voltage Insulating Parts

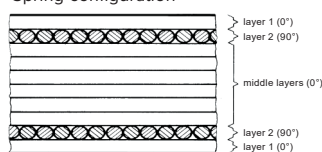
### Characteristics:

- Good Electrical Properties
- High Mechanical Strength
- Great Temperature Resistance



### Sketch:

Spring configuration



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