



# TOP RIPPLE SPRING

Ripple Spring Sheet are made of high strength woven glass fabric and high temperature resin system.

It is used as a spring material for slot wedges tightening to damp radial bar vibrations of large high voltage class generator windings.

Sr. No.	Description	Units	Observed Values	Test Reference
<b>PHYSICAL</b>				
1	Specific Gravity	g/cm <sup>3</sup>	1.8 ± 0.1	DIN EN 53479
2	Water Absorption at 20°C for 24 hours	%	≤ 0.4	ASTM-D570
3	Resin Content	%	30 ± 4	JISC 2116
4	Thickness	mm	0.9 (+0.25/-0.05)	
<b>MECHANICAL measured at 23°C</b>				
5	Spring Pressure at 80% compression	N/mm <sup>2</sup>	≥ 0.9	HTAE 660134
6	Spring Pressure deflection	mm	1.8 ± 0.1	HTAE 660134
7	Thermal Class	-	F	
<b>THERMAL AGEING TEST FOR 168 Hours measured at 23°C</b>				
8	Spring Pressure at 80% compression	N/mm <sup>2</sup>	≥ 0.6	HTAE 660134
9	Spring Pressure deflection	mm	≥ 1.3 ± 0.1	HTAE 660134
<b>ELECTRICAL</b>				
10	Insulation Resistance at 27°C after 24hours immersion in water	M-Ohms	≥ 10 <sup>4</sup>	IEC 167
11	Electrical Strength proof in oil at 90°C Flat Wise	Kv/mm	10	ASTM-D149

