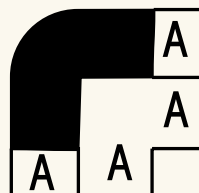


# Electrical Insulating Structural Shapes

## SG-200 Corner Angles

- Corner Angles for coil winding
- SG-200 high temperature resin system
- 210° C electrical and mechanical
- 6mm, 8mm and 10mm sizes



General Information					
Standard Color			Tan		Tan
Standard Length			9 Ft.		2.74 M
Mechanical Properties	ASTM or UL Procedure	English Units	Typical Values	Metric Units	Typical Values
Tensile Strength	ASTM D 638	Psi	70,000	Mpa	483
Tensile Modulus	ASTM D 638	Psi x 10 <sup>6</sup>	3.0	Mpa	20,684
Flexural Strength	ASTM D 790	Psi	80,000	Mpa	552
Flexural Modulus	ASTM D 790	Psi x 10 <sup>6</sup>	3.9	Mpa	26,890
Compressive Strength – axial	ASTM D 695	Psi	50,000	Mpa	345
Compressive Strength – transverse	ASTM D 695	Psi	14,000	Mpa	96
IZOD Impact Strength	ASTM D 256	Ft.lb./in.	40	J/cm	21.4
Shear Strength – in plane	ASTM D 3914	Psi	3,000	Mpa	20.7
Electrical Properties					
Electrical Strength – 1" axial in oil	D 149	kV/in	70	kV/mm	2.8
Arc Resistance	ASTM D 495	seconds	150	seconds	150
Permittivity, 60 Hz	ASTM 150		5.0		5.0
Insulation Resistance	ASTM D 257	Ohms x 10 <sup>14</sup>	64	Ohms x 10 <sup>14</sup>	64
Physical Properties					
Water Absorption	ASTM D 570	% by wt.	0.15	% by wt.	0.15
Specific Gravity	ASTM D 792		1.85		1.85
Flame Resistance	UL 94		HB		HB
Thermal Conductivity	C 177	BTU•In/Hr•Ft <sup>2</sup> •F	2.0	W/mk	0.29
Coefficient of Thermal Expansion	ASTM D 696	In/In/° C x 10 <sup>-5</sup>	0.7	mm/mm/° C x 10 <sup>-5</sup>	0.7



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