

## TYPICAL STRUCTURAL FEA PROPERTIES FOR BMC AND SMC

Property	BMC - 15-25% Glass Content		SMC - 20-40% Glass Content	
	US	Metric	US	Metric
Coefficient of Thermal Expansion	10 - 20 x 10 <sup>-6</sup> °F	17.78 °C	15 - 25 x10 <sup>-6</sup> °F	17.78 °C
Flex Modulus	1.4 - 1.7 x 10 <sup>6</sup> psi	9.66 - 11.72 GPa	1.5 - 1.9 x10 <sup>6</sup> psi	10.34 - 13.10 GPa
Specific Gravity	1.7 - 2.2 g/cm <sup>3</sup>	1.7 - 2.2 g/cm <sup>3</sup>	1.6 - 2.0 g/cm <sup>3</sup>	1.6 - 2.0 g/cm <sup>3</sup>
Poisson's Ratio	0.32 - 0.36 -	0.32 - 0.36 -	0.32 - 0.36 -	0.32 - 0.36 -
Shear Strength	6 - 9,000 psi	41.38 - 62.07 MPa	8 - 12,000 psi	55.17 - 82.76 MPa
Tensile Modulus	1.3 - 1.6 X 10 <sup>6</sup> psi	8.97 - 11.03 GPa	1.4 - 1.8 x10 <sup>6</sup> psi	9.66 - 12.41 GPa
Young's Modulus	1.2 - 1.6 x 10 <sup>6</sup> psi	8.28 - 11.03 GPa	1.6 - 2.0 x10 <sup>6</sup> psi	11.03 - 13.79 GPa



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