

## Applicable Codes

Pultruded FRP cooling tower whether field erected or packaged use best of the materials which have passed stringent of tests specified in CTI. Use of such good quality material ensures a long working life. Some of the ASTM codes specified in CTI are given below with their properties:

Properties	Test Method	Unit/Value	Longitudinal	Transverse
Tensile Modulus	ASTM D638	psi X 10 <sup>6</sup>	2.5	0.8
Flexural Strength	ASTM D790	psi	30000	10000
Flexural Modulus	ASTM D790	psi X10 <sup>6</sup>	1.6	0.8
Izod Impact	ASTM D256	ft-lbs/in	28	4
Compressive Strength	ASTM D695	Psi	30000	15000
Compressive Modulus	ASTM D695	psi X 10 <sup>6</sup>	2.5	1
Barcol Hardness	ASTM D2583		45	45
Shear Strength	ASTM D732	Psi	5500	5500
Density	ASTM D1505	lbs/in <sup>3</sup>	0.058-0.062	
Coefficient of Thermal Expansion	ASTM D696	in/in/°F	5 X 10 <sup>6</sup>	
Water Absorption	ASTM D570	Max%	0.5	
Dielectric Strength	ASTM D149	V/mil	200	
Flammability Classification	UL94	VO		
Flame Spread	ASTM E-84	25 Max		