



PACTomite Large, Thick-walled Composite Rings & Cones

Advanced Composite Systems for industrial applications

Composite systems with epoxy, vinyl esters and polyester resins that can be reinforced with B-glass, carbon and aramid, among others.

Offers

- exceptional strength and toughness
- high-temperature cryogenic usage
- low-temperature cryogenic usage
- resists corrosion
- has excellent dielectric and thermal aging properties

Typical Physical Properties

Data based on filament wound epoxy/E-glass tubes with 70 % glass by weight

Composite Systems

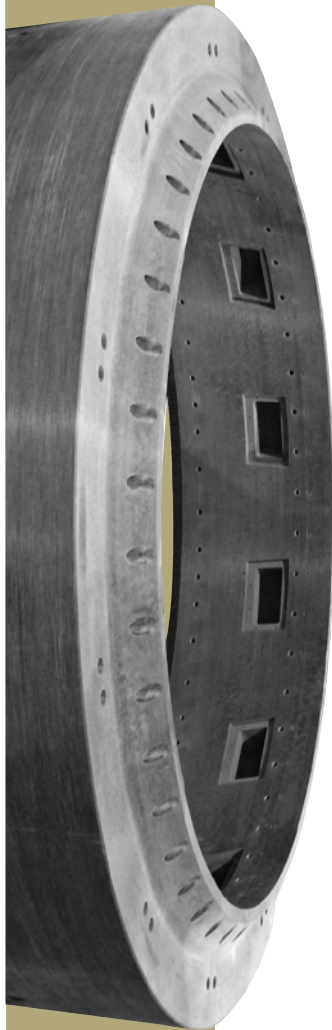
	1003	1005	1000Z	1015
Compression strength, kPSI ASTM Test D348	21.0	25.0	25.5 (85.6*)	22.5
Compression modulus, mPSI ASTM Test D348	3.1	3.1	3.3	2.9
Compression strain @ failure, % ASTM Test D348	0.91	0.98	0.96	0.89
Flexural strength @ 23° C, kPSI ASTM Test D970	20.9	22.9	23.4 (141*)	21.3
Flexural Modulus @ 23° C, mPSI ASTM Test D970	3.0	3.0	3.0 (4.7*)	2.8
Flexural strain @ failure @ 23° C, % ASTM Test D970	1.1	1.4	1.4	1.2
Flexural strength @ 155° C, kPSI ASTM Test D970	9.3	9.3	9.5 (85.6*)	**
Flexural modulus @ 155° C, mPSI ASTM Test D970	1.1	1.1	1.3 (3.8*)	**
Flexural strain @ failure @ 155° C, % ASTM Test D970	2.4	2.4	2.4	**
Compression creep @ 1,000 hrs, 110° C 300 PSI, axial direction ASTM Test D621	0.15	0.15	0.14	0.18
Compression creep @ 1,000 hrs, 155° C, % 5,000 PSI ASTM Test D621	1.60	1.60	1.50	**
Compression creep @ 1,000 hrs, 155° C, % 10,000 PSI ASTM Test D621	1.88	1.88	1.70	**
Tg by DMA, C° ASTM Test E1640	160+	170+	185+	140
AC Dielectric, V/mil ASTM Test D229	320	320	350	380
Dissipation Factor, Condition A, 60 Hz, 2kV AC, % ASTM Test D150	0.28	0.28	0.24	0.22

Notes:

All test data based on a 55° from Axis Filament Wound Tube.

* Hoop wind, 90° from Axis.

** Materials glass-transition temperature (Tg) too low for 155° C testing.



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Power and Composite Technologies, LLC

200 Wallins Corners Road Amsterdam New York 12010 | 518.843.6825 | 518.843.6723 fax

Land/Power and Composite (Xiamen) Technologies Co, LTD

151 West 2nd Jiutianhu Road Xinglin, Xiamen 361022, P R China
518.843.6825 | 518.843.6723 fax

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