



Thorndike Corporation

680 North Bedford Street
East Bridgewater, MA 02333
(508) 378-9797 / 9798
Fax: (508) 378-1529
Toll free: 800-367-3367
www.thorndikecorp.com

Bulletin No.: 111-2800HT

Material: TC2800 - HT

MATERIAL CHARACTERISTICS

Test Frequency:	8.6 GHz
Attenuation:	>30.0 dB / cm at 10 GHz >7.0 dB / cm at 3 GHz
Relative Permeability:	1.21
Relative Permittivity:	21.4 with a 5% tolerance
Loss Factor dB/inch:	.078
Resistivity:	>10E11 ohm cm
Thermal Expansion:	30 x 10E-6 per degrees C.
Outgassing Characteristics:	Typical of epoxide resins
Color:	Brown to Black
Dielectric Strength:	>1 kv/in
Operating Temperature Range:	to 500 degrees F.
Tensile Strength:	>8000 psi
Water Absorption:	<0.3% (24 hrs)
Machinability:	Excellent

Total Mass Loss (TML): < .30%
Collected Volatile Condensable Materials (CVCM): < .02%

NASA CRITERIA FOR SPACE MATERIAL ACCEPTANCE

- TML less than or equal to 1.0%
- CVCM less than or equal to 0.10%

CALL THORNDIKE CORPORATION FOR ALL YOUR LOW AND HIGH POWER ABSORBER REQUIREMENTS!!!

