

PRELIMINARY PRODUCT DATA SHEET



LEADER IN THERMAL MANAGEMENT: DESIGN, INNOVATION AND MATERIALS



CHO-THERM® T441 Commercial Grade Thermal Interface Material

DESCRIPTION

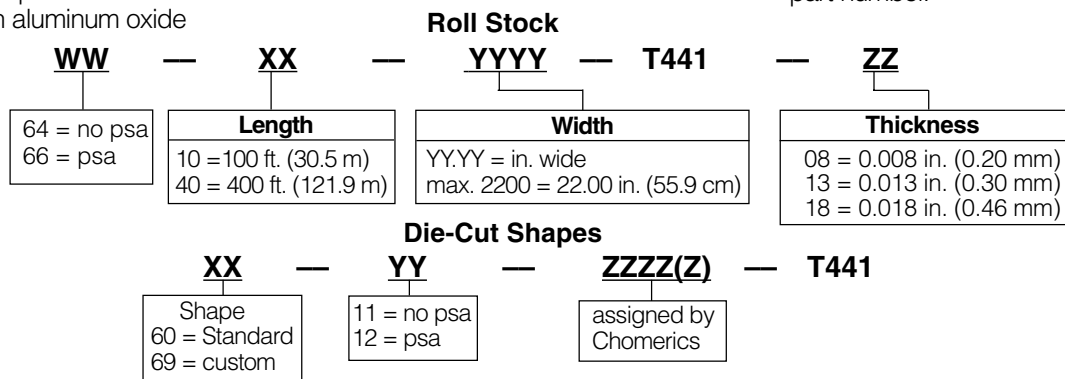
CHO-THERM T441 low-cost thermally conductive insulators are designed for applications requiring a high level of dielectric breakdown protection. CHO-THERM T441 pads provide good thermal conductivity and extremely high electrical insulation, even when used in humid environments.

Consisting of a special silicone binder loaded with aluminum oxide

particles, CHO-THERM T441 pads provide outstanding isolation under most environmental conditions. They are reinforced with fiberglass cloth to provide maximum resistance to tear, cut-through and punctures due to burrs and other surface irregularities. CHO-THERM T441 material is non-nutritive and does not promote fungal growth.

ORDERING INFORMATION

CHO-THERM T441 material is available in standard thicknesses of 0.008 inch (0.20 mm), 0.013 inch (0.30 mm) and 0.018 inch (0.45 mm), as well as custom thicknesses. An optional pressure-sensitive adhesive facilitates assembly and production. Use the diagrams below to construct the appropriate part number.



TYPICAL PROPERTIES		T441			TEST METHOD
CONSTRUCTION	Filler		Aluminum Oxide		—
	Binder		Silicone		—
	Carrier		Fiberglass		—
	Color		Pink		Visual
	Thickness, inch (mm)	0.008 (0.20)	0.013 (0.30)	0.018 (0.46)	ASTM D374
THERMAL	Thermal Impedance, @ 300 psi, °C-in ² /W (°C-cm ² /W)	0.41 (2.65)	0.56 (3.62)	0.64 (4.14)	ASTM D5470
	Thermal Conductivity, W/m-K	1.0	1.1	1.1	ASTM D5470
	Operating Temperature Range, °C	-60 to +200			—
ELECTRICAL	Voltage Breakdown – Dry, Vac	8700	11,400	13,800	ASTM D149
	Voltage Breakdown – Wet, Vac	8100	10,500	12,900	ASTM D149
	Volume Resistivity – Dry, ohm-cm	1 x 10 ¹⁴	1 x 10 ¹⁴	1 x 10 ¹⁴	ASTM D257
	Volume Resistivity – Wet, ohm-cm	1 x 10 ¹⁴	1 x 10 ¹⁴	1 x 10 ¹⁴	ASTM D257
MECHANICAL	Tensile Strength, psi (MPa)	3200 (22.08)	2500 (17.25)	2000 (13.80)	ASTM D412
	Elongation, %	40	30	30	ASTM D412
	Hardness (Shore A)	90	90	90	ASTM D2240
	Specific Gravity	2.55	2.55	2.55	ASTM D792
	UL Recognized	File No.E57104			QMFZ2



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