



Official distributor of APICAL[®] polyimide films in Europe

GTS 7800 - COPPER POLYIMIDE LAMINATES

GTS 7800 is a high temperature laminate of polyimide film bonded on one or both sides to high elongation electrodeposited or rolled annealed copper foil.

The adhesive is a flexible epoxy system which gives excellent heat resistance and ease of processing.

GTS 7800 has a high peel strength typically 1.4 N/mm (8lbs/inch) at 90° peel.

GTS 7800 meets IPC specifications.

GTS 7800 laminates are available with a fire retardant epoxy adhesive as GTS 7870 series which is 94 V-O UL recognised with a UL No. E 107735/M.

The recommended coverlay is GTS 3870 an epoxy coated polyimide. The recommended cast epoxy adhesive is GTS 3800.

GTS 7800 is available in copper thickness of 9, 18, 35, 70 and 105 microns (1/4, 1/2, 1, 2 and 3 oz/sq ft) with polyimide thickness of 12, 25, 50, 75 and 125 microns (1/2, 1, 2, 3 and 5 mils).

Rolls - standard width of 610 mm (24 inches).

27.07.99

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GTS 7800 TECHNICAL DATA

PROPERTIES	TEST SPECIFICATION	TYPICAL VALUE	UNITS
PHYSICAL			
Peel Strength *	IPC-TM-650 2.4.9	1.4	N/mm
Elongation - etched	IPC-TM-650 2.4.18	52	%
Tensile Strength - etched	ASTM D-882-81	231	Mpa
THERMAL			
Shrinkage	IPC-TM-650 2.2.4	0.2	%
Solder Float	IPC-TM-650 2.4.13	20	S
Operating Temperature	IPC-TM-650 2.6.21	125	°C
ELECTRICAL			
Dielectric Strength	ASTM D-149	4.2	KV/mil
Dielectric Constant	IPC-TM-650 2.5.53	3.5	-
Dissipation Factor	IPC-TM-650 2.5.53	0.02	-
Surface Resistivity	IPC-TM-650 2.5.17	10 ¹¹	ohm/sq
Volume Resistivity	IPC-TM-650 2.5.17	10 ¹¹	ohm-m

* Data determined for GTS 780120 RA unless otherwise shown

GTS, one of Europe's leading manufacturers of flexible electrical laminates, specialise in the manufacture and design of flexible laminates and adhesive tapes to meet specific requirements. Combinations of materials, fabrics, scrims, metal foils, plastic films, can generate very strong and very lightweight composites.

GTS, ein in Europa führender Hersteller von flexiblen Elektrolaminaten, spezialisiert in der Entwicklung und Produktion flexibler Laminat und Klebebänder, die spezifikationen und Kundenwünsche erfüllen. Materialkombinationen, wie z. B. Gewebe, Leinen oder Metallfolien, verklebt mit Kunststofffolien, ergeben leichte, sehr stabile Verbundwerkstoffe.

GTS, un des premiers fabricants Européens de laminés électriques souples est spécialisé dans l'étude et la fabrication de laminés souples et de bandes adhésives répondant à vos besoins spécifiques. La combinaison de matières, tissus, grilles, feuillards métalliques, films plastiques, peut conduire à des composites très résistants et très légers.