



QMTS8.E123995

Polymeric Materials - Filament-wound Tubing, Industrial Laminates, Vulcanized Fiber, and Materials for Use in Fabricating Recognized Printed Wiring Boards Certified for Canada - Component

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See General Information for Polymeric Materials - Filament-wound Tubing, Industrial Laminates, Vulcanized Fiber, and Materials for Use in Fabricating Recognized Printed Wiring Boards Certified for Canada - Component

KINGBOARD LAMINATES HOLDINGS LTD

E123995

2ND FL, HARBOUR VIEW 1
NO 12 SCIENCE PARK EAST AVE
PHASE II, HONG KONG SCIENCE PARK
SHATIN, N T HONG KONG

Industrial laminates:

Mtl Dsg	ANSI Type	Color	Build up		R.T.I.		H W I	H A I	V T R	C T I	Meets 746E Non-HAL	Meets 746E DSR
			Min Thk (mm)	Flame Class	Elec (°C)	Mech (°C)						
Industrial laminates, furnished as sheets.												
KB-150	XPC	NC, BK	0.71	HB	130	130	2	0	0	-	-	Yes
			1.57	HB	130	130	1	0	1	4	-	Yes
KB-2150	FR-2	NC	1.45	V-0	105	105	4	3	1	4	-	Yes
KB-2150G	FR-2	TN	0.71	V-0	75	75	0	3	6	-	-	Yes
			1.45	V-0	105	105	0	3	6	3	-	Yes
KB-2150GC	FR-2	TN	0.71	V-0	75	75	0	4	6	-	-	-
			1.45	V-0	105	105	0	3	6	0	-	Yes
KB-3151S (with Adhesive)												
	FR-1	NC	1.45	V-0	130	130	0	0	-	0	-	Yes
			0.71	V-0	130	130	0	0	-	-	-	Yes
KB-3151S (without Adhesive)												
	FR-1	NC	1.45	V-0	130	130	3	3	4	4	-	Yes
			0.71	V-0	130	130	3	3	4	-	-	Yes
KB-3152	FR-1	NC	0.71	V-0	130	130	0	0	-	-	-	Yes
			1.45	V-0	130	130	0	0	-	0	-	Yes
KB-5150	CEM-1	NC	0.63	V-0	130	140	3	2	4	-	-	Yes
			1.40	V-0	130	140	1	2	4	3	-	Yes
KB-5150&												
	CEM-1	NC	0.63	V-0	130	140	1	3	4	-	-	Yes

			0.63	V-0	130	140	0	1	-	-	-	Yes
			1.40	V-0	130	140	0	1	-	3	-	Yes
KB-6165GC	FR-4.1	NC	0.05	V-0	120	100	0	3	-	-	Yes	Yes
			0.38	V-0	130	130	0	1	-	-	-	Yes
			0.63	V-0	130	140	0	1	-	-	-	Yes
			1.40	V-0	130	140	0	1	-	0	-	Yes
KB-6167A	FR-4.0	NC	0.38	V-0	130	130	0	2	-	-	-	Yes
			0.63	V-0	130	140	0	2	4	-	-	Yes
			1.40	V-0	130	140	0	1	4	4	-	Yes
KB-6167F	FR-4.0	NC	0.38	V-0	130	130	0	3	-	-	-	Yes
			0.63	V-0	130	140	0	3	4	-	-	Yes
			1.40	V-0	130	140	0	2	4	3	-	Yes
KB-6167G	FR-4.1	NC	0.05	V-0	120	100	0	3	-	-	Yes	Yes
			0.38	V-0	130	130	0	1	-	-	-	Yes
			0.63	V-0	130	140	0	1	-	-	-	Yes
			1.40	V-0	130	140	0	1	-	0	-	Yes
KB-6167GMD												
	FR-4.1	NC	0.38	V-0	130	130	0	1	-	-	Yes	Yes
			0.63	V-0	130	140	0	1	-	-	-	Yes
			1.40	V-0	130	140	0	0	-	0	-	Yes
KB-7150T	CEM-3	NC	0.63	V-0	130	140	0	2	4	-	-	Yes
			1.40	V-0	130	140	0	2	4	0	-	Yes
Industrial laminates, furnished as sheets, rods or tubes.												
HF-140	FR-4.1	NC	0.38	V-0	130	130	0	2	-	-	Yes	Yes
			0.63	V-0	130	140	0	2	-	-	-	Yes
			1.40	V-0	130	140	0	2	-	3	-	Yes
KB-3150N	FR-1	NC	0.71	V-0	130	130	0	0	-	-	-	Yes
			1.45	V-0	130	130	-	-	-	3	-	Yes
KB-3150NU %												
	FR-1	NC	0.71	V-0	130	130	3	3	4	-	-	Yes
			1.45	V-0	130	130	3	3	4	4	-	Yes
KB-3151HS	FR-1	NC	0.71	V-0	130	130	0	0	4	-	-	Yes
			1.45	V-0	130	130	0	0	4	0	-	Yes
KB-3152C	FR-1	NC	0.71	V-0	130	130	0	0	4	-	-	Yes
			1.45	V-0	130	130	0	0	4	0	-	Yes
KB-3152S	FR-1	NC	0.71	V-0	130	130	0	0	4	-	-	Yes
			1.45	V-0	130	130	0	0	4	0	-	Yes
KB-3153*	FR-1	NC	0.71	V-0	130	130	0	0	4	-	-	Yes
			1.45	V-0	130	130	0	0	4	0	-	Yes
KB-5152	No ANSI	NC	0.60	V-0	-	-	-	-	-	-	-	-
KB-6150	FR-4.0	NC	0.10	V-0	120	125	0	3	-	-	-	Yes
			0.63	V-0	130	140	0	3	4	-	-	Yes

			1.40	V-0	130	140	0	2	4	4	-	Yes
			0.38	V-0	130	130	0	3	-	-	-	Yes
KB-6162	No ANSI	NC	0.63	V-0	-	-	-	-	-	-	-	-
KB-6167GLD												
	FR-4.1	NC	0.38	V-0	130	130	0	3	-	-	Yes	Yes
			0.63	V-0	130	140	0	3	-	-	-	Yes
			1.40	V-0	130	140	0	2	-	3	-	Yes
Industrial laminates.												
EEL-128	FR-4.0	NC	0.38	V-0	130	130	3	0	-	-	-	-
			0.63	V-0	130	140	0	3	-	-	-	Yes
			1.40	V-0	130	140	0	2	-	3	-	Yes
EEL-145	FR-4.0	NC	0.38	V-0	130	130	3	0	-	-	-	-
			0.63	V-0	130	140	0	3	-	-	-	Yes
			1.40	V-0	130	140	0	2	-	3	-	Yes
KB-3151C (with Adhesive)												
	FR-1	NC	0.71	V-0	130	130	0	0	-	-	-	Yes
			1.45	V-0	130	130	-	-	-	0	-	Yes
KB-3151C (without Adhesive)												
	FR-1	NC	0.71	V-0	130	130	3	3	4	-	-	Yes
			1.45	V-0	130	130	3	3	4	4	-	Yes
KB-3151C175 (with Adhesive)												
	FR-1	NC	0.71	V-0	130	130	0	0	-	-	-	Yes
			1.45	V-0	130	130	-	-	-	3	-	Yes
KB-6155	FR-4.0	NC	0.38	V-0	130	130	0	3	-	-	-	Yes
			0.63	V-0	130	140	0	3	4	-	-	Yes
			1.40	V-0	130	140	0	2	4	4	-	Yes
KB-6165GLD												
	FR-4.1	NC	0.38	V-0	130	130	0	0	-	-	Yes	Yes
			0.63	V-0	130	140	0	0	-	-	-	Yes
			1.40	V-0	130	140	0	1	-	3	-	Yes
KB-6165GMD												
	FR-4.1	NC	0.38	V-0	130	130	0	0	-	-	Yes	Yes
			0.63	V-0	130	140	0	1	-	-	-	Yes
			1.40	V-0	130	140	0	1	-	2	-	Yes
KB-7152	CEM-3	NC	0.63	V-0	130	140	0	2	4	-	-	Yes
			1.40	V-0	130	140	0	2	4	3	-	Yes

Ultrathin build ups:

Build Up					Laminate			Prepreg		
Mtl Dsg	ANSI Type	Min Thk (mm)	TI Elec	TI Mech	Mtl Dsg	Thk (mic)	TI Elec	Mtl Dsg	Thk (mic)	TI Elec
Ultrathin industrial laminates and bonding layers, furnished in sheet form, for use in multilayer printed wiring boards where the thickness is built up to the minimum specified.										

EEL-128	FR-4.0	0.38	130	130	EEL-128	50	90	EP	50	90
EEL-145	FR-4.0	0.38	130	130	EEL-145	50	90	ETP	50	90
HF-140	FR-4.1	0.38	130	130	HF-140	50	90	PP-HF140	50	90
KB-6155	FR-4.0	0.38	130	130	KB-6155	0.05	90	KB-6055	0.05	90
KB-616(X)	FR-4.0	0.38	130	130	KB-6160, KB-6164	100	120	KB-6060, KB-6064	50	90
KB-6160A	FR-4.0	0.38	130	130	KB-6160A	50	90	KB-6060A	50	90
KB-6160C	FR-4.0	0.38	130	130	KB-6160C	50	90	KB-6060C	50	90
KB-6164F	FR-4.0	0.38	130	130	KB-6164F	50	90	KB-6064F	50	90
KB-6165	FR-4.0	0.38	130	130	KB-6165	50	90	KB-6065	50	90
KB-6165F	FR-4.0	0.38	130	130	KB-6165F	50	90	KB-6065F	50	90
KB-6165G	FR-4.1	0.38	130	130	KB-6165G	50	90	KB-6065G	50	90
KB-6165GC	FR-4.1	0.38	130	130	KB-6165GC	50	90	KB-6065GC	50	90
KB-6165GLD	FR-4.1	0.38	130	130	KB-6165GLD	65	90	KB-6065GLD	50	90
KB-6165GMD	FR-4.1	0.38	130	130	KB-6165GMD	65	90	KB-6065GMD	50	90
KB-6167A	FR-4.0	0.38	130	130	KB-6167A	100	120	KB-6067A	50	90
KB-6167F	FR-4.0	0.38	130	130	KB-6167F	100	90	KB-6067F	50	90
KB-6167G	FR-4.1	0.38	130	130	KB-6167G	50	90	KB-6067G	50	90
KB-6167GLD	FR-4.1	0.38	130	130	KB-6167GLD	65	90	KB-6067GLD	50	90
KB-6167GMD	FR-4.1	0.38	130	130	KB-6167GMD	65	90	KB-6067GMD	50	90
KB-6168	FR-4.0	0.38	130	130	KB-6168	50	90	KB-6068	50	90

Metal clad industrial laminates:

				Bld up	Clad Cond Thk			Max		Max	Solder Lts	
Metal Clad Dsg	Laminate Dsg	Pre-preg Dsg	ANSI Type	Min Thk (mm)	Min Ext (mic)	Max Ext (mic)	Max Int (mic)	Area Dia (mm)	Flame Class	Oper Temp (°C)	Temp (°C)	Time (sec)
Metal clad industrial laminates for use in multilayer printed wiring boards with copper on one or both sides, furnished as sheets.												
KB-6160A												
	KB-6160A	KB-6060A	FR-4.0	0.38	12	102	70	50.8	V-0	130	288	20
KB-6160C												

	KB-6165G	-	FR-4.1	0.05	17	102	-	50.8	V-0	100	288	20
				0.38	17	102	-	50.8	V-0	130	288	20
KB-6165GC												
	KB-6165GC	-	FR-4.1	0.05	17	102	-	50.8	V-0	100	288	20
				0.38	17	102	-	50.8	V-0	130	288	20
KB-6167A												
	KB-6167A	-	FR-4.0	0.38	17	102	-	50.8	V-0	130	288	30
KB-6167F												
	KB-6167F	-	FR-4.0	0.38	12	102	-	50.8	V-0	130	288	60
KB-6167G												
	KB-6167G	-	FR-4.1	0.05	17	102	-	50.8	V-0	100	288	20
				0.38	17	102	-	50.8	V-0	130	288	20
KB-6168												
	KB-6168	-	FR-4.0	0.38	12	102	-	50.8	V-0	130	288	60
KB-7150												
	KB-7150	-	CEM-3	0.63	17	102	-	50.8	V-0	130	290	20
KB-7150C												
	KB-7150C	-	CEM-3	0.63	17	102	-	50.8	V-0	130	288	20
KB-7150T												
	KB-7150T	-	CEM-3	0.63	17	102	-	50.8	V-0	130	288	20
Metal clad industrial laminates for use in single layer printed wiring boards with copper on one or both sides, furnished as sheets, rods or tubes.												
HF-140												
	HF-140	-	FR-4.1	0.38	12	102	-	50.8	V-0	130	288	30
KB-3152C												
	KB-3152C	-	FR-1	0.71	34	102	-	50.8	V-0	130	260	10
KB-3152S												
	KB-3152S	-	FR-1	0.71	34	102	-	50.8	V-0	130	260	10
KB-3153*												
	KB-3153	-	FR-1	0.71	34	102	-	50.8	V-0	130	260	10
KB-6167GLD,KB-6165GMD,KB-6165GLD,KB-6167GMD												
	KB-6167GLD, KB-6165GMD, KB-6165GLD, KB-6167GMD	-	FR-4.1	0.38	12	102	-	50.8	V-0	130	288	30
Metal clad industrial laminates for use in single layer printed wiring boards with copper on one or both sides.												

EEL-128												
	EEL-128	-	FR-4.0	0.38	17	102	-	38.1	V-0	130	288	30
				0.63	17	102	-	50.8	V-0	130	288	30
EEL-145												
	EEL-145	-	FR-4.0	0.38	17	102	-	50.8	V-0	130	288	30
KB-3151C*												
	KB-3151C	-	FR-1	0.71	17	102	-	50.8	V-0	130	260	10
KB-3151S												
	KB-3151S	-	FR-1	0.71	17	102	-	38.1	V-0	130	260	10
KB-5150A												
	KB-5150A	-	CEM-1	0.63	17	102	-	50.8	V-0	130	288	20
KB-5150H												
	KB-5150H	-	CEM-1	0.63	17	102	-	50.8	V-0	130	288	20
KB-5150L												
	KB-5150L	-	CEM-1	0.63	17	102	-	50.8	V-0	130	260	10
KB-6155												
	KB-6155	-	FR-4.0	0.38	12	102	-	50.8	V-0	130	288	60
KB-7152												
	KB-7152	-	CEM-3	0.63	17	102	-	50.8	V-0	130	288	20
Metal clad industrial laminates for use in single layer printed wiring boards with copper on one side only, furnished as sheets.												
KB-1150												
	KB-150	-	XPC	0.71	35	117	-	25.4	HB	130	260	10
KB-5150												
	KB-5150	-	CEM-1	0.71	35	102	-	50.8	V-0	130	260	10
KB-5150G												
	KB-5150G	-	CEM-1	0.63	17	102	-	50.8	V-0	130	288	10
KB-5252												
	KB-5252	-	CEM-1	0.63	17	102	-	50.8	V-0	130	288	10
Metal clad industrial laminates for use in single layer printed wiring boards with copper on one side only, furnished as sheets, rods or tubes.												
KB-3150N												
	KB-3150N %	-	FR-1	0.71	17	102	-	50.8	V-0	130	260	10
KB-3151HS												
	KB-3151HS	-	FR-1	0.71	34	102	-	50.8	V-0	130	260	10

Metal clad industrial laminates for use in multilayer printed wiring boards with copper on one or both sides.												
KB-6155												
	KB-6155	KB-6055	FR-4.0	0.38	12	102	70	50.8	V-0	130	288	60

Metal clad industrial laminates (Flammability Only Recognition):

Metal Clad Dsg	Lam-inate Dsg	Pre-preg Dsg	ANSI Type	Bld up	Clad Cond Thk			Max	Flame Class	Max	Solder Lts	
				Min Thk (mm)	Min Ext (mic)	Max Ext (mic)	Max Int (mic)	Area Dia (mm)		Oper Temp (°C)	Temp (°C)	Time (sec)
Metal clad industrial laminates for use in single layer printed wiring boards with copper on one or both sides, furnished as sheets (Flammability Only Recognition).												
KB-5152												
	KB-5152	-	No ANSI	0.60	-	-	-	-	V-0	-	260	10
KB-6162												
	KB-6162	-	No ANSI	0.63	-	-	-	-	V-0	-	288	30


% - Corresponds to Unclad values without adhesive. For declad values (single sided) see corresponding grade "KB-3150N"

& - Corresponds to Declad values with adhesive. For Unclad values see corresponding grade designation.

* - With adhesive

X - may be 0, 4



Marking: Company name, model designation and the Recognized Component Mark for Canada, .
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