



## QMTS2.E213990 Polymeric Materials - Filament-wound Tubing, Industrial Laminates, Vulcanized Fiber, and Materials for Use in Fabricating Recognized Printed Wiring Boards - Component

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[Page Bottom](#)

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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 - Component

**SHANGHAI NANYA COPPER CLAD LAMINATES CO LTD** E213990  
 158 CHANGXIANG RD  
 NANXIANG, SHANGHAI 210802 CHINA

**Industrial laminates:**

Mtl Dsg	ANSI Type	Color	Build up		R.T.I.		H			Meets 746E DSR	
			Min Thk (mm)	Flame Class	Elec (°C)	Mech (°C)	H W I	H A I	V T R		C T I
<b>Industrial laminates, furnished as sheets, rods or tubes.</b>											
NY2150	FR-4	NC	0.38	V-0	130	130	0	3	-	-	Yes
		NC	0.63	V-0	130	140	0	3	-	-	Yes
		NC	1.40	V-0	130	140	0	2	-	3	Yes
SN-CEM-3	No ANSI	NC	0.63	V-0	50	50	-	-	-	-	-
<b>SN-L1, SN-L2(NY1140)</b>											
	FR-4	NC, YL	0.38	V-0	130	130	0	3	2	3	Yes
			0.63	V-0	130	140	0	3	2	3	Yes
			1.40	V-0	130	140	0	2	0	3	Yes
<b>SN-L5 (LF)</b>											
	No ANSI	YL	0.38	V-0	-	-	-	-	-	-	-
			0.63	V-0	-	-	-	-	-	-	-
			1.40	V-0	-	-	-	-	-	-	-
<b>Industrial laminates.</b>											
SN-L7(HF)	FR-4	NC	0.38	V-0	130	130	0	3	-	-	Yes
		NC	0.63	V-0	130	140	0	3	-	-	Yes
		NC	1.40	V-0	130	140	0	2	-	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
<b>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.</b>										
NY2150	FR-4	0.38	130	130	NY2150	50	90	NY2150P	50	90
		0.63	130	140	NY2150	50	90	NY2150P	50	90

SN-L1, SN-L2(NY1140)												
	FR-4	0.38	130	140	SN-L1, SN-L2 (NY1140)	50	90	SN-P1, SN-P2 (NY1140P)	50	90		
SN-L5 (LF)	No ANSI	0.38	-	-	SN-L5 (LF)	75	-	SN-P3 (LF)	75	-		

**Metal clad industrial laminates:**

Metal Clad Dsg	Lam-inate Dsg	Pre-preg Dsg	ANSI Type	Bld up		Clad Cond Thk			Area Dia (mm)	Flame Class	Oper Temp (°C)	Temp (°C)	Solder Lts Time (sec)
				Min Thk (mm)	Min Ext (mic)	Max Ext (mic)	Max Int (mic)	Max					
<b>Metal clad industrial laminates for use in multilayer printed wiring boards with copper on one or both sides, furnished as sheets.</b>													
<b>SN-L1, SN-L2(NY1140)</b>													
	SN-L1, SN-L2 (NY1140)	SN-P1, SN-P2 (NY1140P)	FR-4	0.38	17	102	68	50.8	V-0	130	288	20	
<b>Metal clad industrial laminates for use in multilayer printed wiring boards with copper on one or both sides.</b>													
<b>NY2150</b>													
	NY2150	NY2150P	FR-4	0.38	12	102	68	50.8	V-0	130	288	20	
<b>SN-L7(HF)</b>													
	SN-L7(HF)	SN-P4(HF)	FR-4	0.38	17	102	68	50.8	V-0	130	288	20	
<b>Metal clad industrial laminates for use in single layer printed wiring boards with copper on one or both sides, furnished as sheets.</b>													
<b>SN-L3, SN-L4</b>													
	SN-L1, SN-L2 (NY1140)	-	FR-4	0.38	17	102	-	50.8	V-0	130	288	20	
<b>Metal clad industrial laminates for use in single layer printed wiring boards with copper on one or both sides.</b>													
<b>NY2150</b>													
	NY2150	-	FR-4	0.38	12	102	-	50.8	V-0	130	288	20	
<b>SN-L8(HF)</b>													
	SN-L7(HF)	-	FR-4	0.38	17	102	-	50.8	V-0	130	288	20	

**Metal clad industrial laminates (Flammability Only Recognition):**

Metal Clad Dsg	Lam-inate Dsg	Pre-preg Dsg	ANSI Type	Bld up		Clad Cond Thk			Area Dia (mm)	Flame Class	Oper Temp (°C)	Temp (°C)	Solder Lts Time (sec)
				Min Thk (mm)	Min Ext (mic)	Max Ext (mic)	Max Int (mic)	Max					
<b>Metal clad industrial laminates for use in multilayer printed wiring boards with copper on one or both sides, furnished as sheets (Flammability Only Recognition).</b>													
<b>SN-L5 (LF)</b>													
	SN-L5 (LF)	SN-P3 (LF)	No ANSI	0.38	-	-	-	-	V-0	-	288	20	
<b>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).</b>													
<b>SN-CEM-3</b>													
	SN-CEM-3	-	No ANSI	0.63	-	-	-	-	V-0	-	260	10	
<b>SN-L6 (LF)</b>													
	SN-L5 (LF)	-	No ANSI	0.38	-	-	-	-	V-0	-	288	20	

Marking: Company name and material designation on container or wrapper.

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