


# MATERIAL DECLARATION SHEET



Material Number	HCTSM8XXXXXXX			
Product Line	High Creepage Transformers			
Compliance Date	2024-04-01			
RoHS Compliant	YES	MSL	1	

No.	Construction Element (subpart)	Homogeneous Material	Material weight [g]	Compositions\Substances	CASRN (if applicable)	Composition Mass %	Composition Mass % of total unit wt.	Material mass of total wt. (%)
1	Core	Mn-Zn ferrite	0.29302	Ferric oxide	1309-37-1	72	16.5159	22.9388
				Trimanganese tetraoxide	1317-35-7	22	5.0465	
				Zinc oxide	1314-13-2	6	1.3763	
		Parylene coating	0.00598	[2.2]Paracyclophane	1633-22-3	100	0.4681	0.4681
2	Housing	DAP-GF30	0.4423	DAP resin	25035-78-3	25	8.6563	34.6250
				Aluminium hydroxide	21645-51-2	45	15.5813	
				Glass fiber	65997-17-3	30	10.3875	
3	Pin	Phosphor Bronze Alloys	0.0485	Copper	7440-50-8	93.45	3.5481	3.7968
				Tin	7440-31-5	6.25	0.2373	
				Phosphorus	7723-14-0	0.2	0.0076	
				Iron	7439-89-6	0.1	0.0038	
		Nickel plating	0.00004	Nickel	7440-02-0	100	0.0031	0.0031
Tin plating	0.00016	Tin	7440-31-5	100	0.0125	0.0125		
4	Yellow insulated wire	Copper	0.02197	Copper	7440-50-8	100	1.7199	1.7199
		PUR	0.00079	Polyurethane	9017-09-8	100	0.0618	0.0618
		PFA(Yellow)	0.01904	Poly(tetrafluoroethylene-co-perfluoro(propylvinyl ether))	26655-00-5	99	1.4756	1.4905
	Yellow masterbatch			Proprietary	1	0.0149		
	Blue insulated wire	Copper	0.02197	Copper	7440-50-8	100	1.7199	1.7199
PUR		0.00079	Polyurethane	9017-09-8	100	0.0618	0.0618	

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		PFA(Blue)	0.01904	Poly(tetrafluoroethylene-co-perfluoro(propylvinyl ether))	26655-00-5	99	1.4756	1.4905
				Blue masterbatch	Proprietary	1	0.0149	
	Red enamelled wire	Copper	0.0582	Copper	7440-50-8	100	4.5561	4.5561
		PUR (Red)	0.0052	modified polyurethane resin	secret	99	0.4030	0.4071
			Red dye	secret	1	0.0041		
	Green enamelled wire	Copper	0.0582	Copper	7440-50-8	100	4.5561	4.5561
		PUR (Green)	0.0052	modified polyurethane resin	secret	99	0.4030	0.4071
			Green dye	secret	1	0.0041		
6	Cover	PA10T/X-GF35FR(40)	0.1928	Poly(iminocarbonyl-1,4-phenylenecarbonylimino-1,10-decanediyl)	24938-74-7	50	7.5466	15.0932
				Glass fiber	65997-17-3	35	5.2826	
				Aluminum diethylphosphinate	225789-38-8	15	2.2640	
7	Glue	Silicone Rubber	0.07	Silicone Rubber	63394-02-5	55	3.0139	5.4799
				Silicon Dioxide	14808-60-7	44	2.4111	
				Carbon Black	1333-86-4	1	0.0548	
8	Soder	Tin-silver-cooper alloy	0.0142	Tin	7440-31-5	96.5	1.0727	1.11163
				Silver	7440-22-4	3	0.0333	
				Copper	7440-50-8	0.5	0.0056	
		Total weight	1.28					

**Part Number list: HCTSM80101AAL, HCTSM80102AAL, HCTSM80201AAL, HCTSM80304BAL, HCTSM80305BAL, HCTSM80308BAL, HCTSM80403AAL, HCTSM80803AAL, HCTSM80809AAL, HCTSM80910BAL, HCTSM81017CAL**

**This Document was updated on: 2024-04-01**

**Important remarks:**

1. It is the responsibility of the user to verify they are accessing the latest version.