

## Material Composition for SX-4472A

Sub-component	Material	% of Total Mass	Substance Name	CAS #	Substance Mass (grams)	Special Classification
Housing	Glass Reinforced PPA	27.72%	PPA	2776-72-1	1.52E+01	
			Glass Fibber	65997-17-3	7.49E+00	
Rear Lid	PBT	10.38%	PBT	26062-94-2	8.33E+00	
			Misc. Not to declare	N/A	1.70E-01	
Torque Array	PCB material	0.72%	Glass Fiber	65997-17-3	3.95E-01	
			Copper	7440-50-8	2.00E-02	
			Nickel	7440-02-0	5.55E-03	
			Gold	7440-57-5	2.31E-03	
			Epoxy resing	N/A	1.69E-01	
	CP Paste	0.24%	Secret Formula	N/A	2.00E-01	
Position Element	PCB material	7.46%	Glass Fiber	65997-17-3	4.16E+00	
			Copper	7440-50-8	1.15E-01	
			Nickel	7440-02-0	3.21E-02	
			Gold	7440-57-5	1.39E-02	
			Epoxy resing	N/A	1.78E+00	
	CP Paste	0.24%	Secret Formula	N/A	2.00E-01	
Slip Ring Paste	0.24%	Secret Formula	N/A	2.00E-01		
		Secret Formula	N/A	2.00E-01		
		Secret Formula	N/A	2.00E-01		
Plasstic rotor	Glass Reinforced Nylon	16.12%	Glass Fiber	65997-17-3	1.32E+00	
			Nylon 6	25038-54-4	6.60E+00	
			Acrylonitrile, polymer with styrene	9003-54-7	2.77E+00	
			Poly-paraphenylene terephthalamic	26125-61-1	6.60E-01	
			Polytetrafluoroethylene	9002-84-0	1.32E+00	
			Misc. Not to declare	N/A	5.28E-01	
LH3 Rotor Plastic	Glass Reinforced Nylon	15.56%	Glass Fiber	65997-17-3	1.27E+00	
			Nylon 6	25038-54-4	6.37E+00	
			Acrylonitrile, polymer with styrene	9003-54-7	2.68E+00	
			Poly-paraphenylene terephthalamic	26125-61-1	6.37E-01	
			Polytetrafluoroethylene	9002-84-0	1.27E+00	
			Misc. Not to declare	N/A	5.10E-01	
Star Rotor	Glass Reinforced Nylon	0.34%	Glass Fiber	65997-17-3	1.47E-02	
			Nylon 6	25038-54-4	1.47E-01	
			Acrylonitrile, polymer with styrene	9003-54-7	6.19E-02	
			Poly-paraphenylene terephthalamic	26125-61-1	1.47E-02	
			Polytetrafluoroethylene	9002-84-0	2.95E-02	
			Misc. Not to declare	N/A	1.18E-02	
Contact spring	Palladium Alloy	0.00%	Palladium	7440-05-3	1.90E-04	
			Nickel	7440-02-0	3.81E-04	
			Tin	7440-31-5	2.03E-04	
			Silver	7440-22-4	1.64E-04	
			Copper	7440-50-8	2.57E-04	
			Misc. Not to declare	N/A	1.18E-02	
Coupling	Stainless Steel	5.03%	Iron	7439-89-6	2.88E+00	
			Chromium	7440-47-3	7.41E-01	
			Nickel	7440-02-0	4.12E-01	
			Misc. Not to declare	N/A	8.23E-02	
			Misc. Not to declare	N/A	8.23E-02	
Hog ring	Stainless Steel	1.46%	Iron	7439-89-6	8.36E-01	
			Chromium	7440-47-3	2.15E-01	
			Nickel	7440-02-0	1.19E-01	
			Misc. Not to declare	N/A	2.39E-02	
			Misc. Not to declare	N/A	2.39E-02	
Grip Ring	Stainless Steel	1.46%	Iron	7439-89-6	8.36E-01	
			Chromium	7440-47-3	2.15E-01	
			Nickel	7440-02-0	1.43E-01	
			Misc. Not to declare	N/A	1.43E-01	
Contact	Palladium Alloy	0.16%	Palladium	7440-05-3	8.27E-03	
			Nickel	7440-02-0	1.66E-02	
			Tin	7440-31-5	8.86E-03	
			Silver	7440-22-4	7.14E-03	
			Copper	7440-50-8	8.87E-02	
			Misc. Not to declare	N/A	1.18E-02	
Flex circuit	Base laminate	3.02%	Copper	7440-50-8	2.47E+00	
			Polyurethane	618-449-1	8.54E-03	
	Adhesive A052300	0.04%	Polyester	113669-97-9	8.54E-03	
			Copolymer	25133-97-5	8.54E-03	
	Epoxy resin	0.16%	Epoxy resin	24969-06-0	9.52E-03	
			Inorganic ingredient, not to declare	N/A	1.46E-03	
	Film	0.04%	Polymimide	63428-84-2	1.33E-01	
			Acrylinc Resin	9063-87-0	3.03E-02	
Solder mask	0.04%	Inorganic ingredient, not ot declare	N/A	7.75E-04		
		Inorganic ingredient, not ot declare	N/A	7.75E-04		
Surface finish	Tin plating	0.02%	Tin	7440-31-5	1.82E-02	
			Flux	8061-51-6	3.00E-04	
Absorbent apad	Polyester material	0.23%	Polyester resin	113669-95-7	1.81E-01	
			Misc. not to declare	N/A	9.50E-03	
Star Drive	Glass Reinforced Nylon	1.34%	Glass fiber	65997-17-3	3.74E-01	
			PPA	N/A	7.15E-01	
			Misc. not to declare	N/A	1.10E-02	
Cover	Glass Reinforced Nylon	3.37%	Glass fiber	65997-17-3	9.38E-01	
			PPA	N/A	1.79E+00	
			Misc. not to declare	N/A	2.76E-02	
Teflon Wahser	Teflon	1.06%	PTFE	9002-84-0	8.65E-01	
Thermal potting componer Nylon	Nylon	3.54%	Polyamide	32131-17-2	2.61E+00	
			Misc. Not to declare	N/A	2.90E-01	
Label	Polyester label	0.05%	Polyethylene tereohthalate	25038-59-9	4.00E-02	
<b>Total mass</b>					<b>81.90</b>	<b>grams</b>