

Material Composition for P270-SF21 (all values)

Sub-component	Material	% of Total Mass	Substance Name	CAS #	Substance Mass	Special Classification
Base	Carbon polymer	0.007%	Carbon black	1333-86-4	0.0020	
			Talc	14807-96-6	1.02E-04	
			Polymer	29601-89-0	7.68E-05	
			Monobutyl Ether	112-34-5	7.68E-05	
	Epoxy resin	20.790%	Silver	7440-22-4	1.28E-04	
			Silica	14808-60-7	3.804	
			Epoxy resin	29690-82-2	1.119	
			Phenolic resin	9003-35-4	0.280	
			Brominated epoxy resin	40039-93-8	0.280	Halogen compound
			Carbon black	1333-86-4	0.112	
	Silver resin	0.004%	Phenolic resin	9039-25-2	4.02E-04	
			Silver	7440-22-4	0.001	
			Glass powder	65997-17-3	1.34E-05	
			Graphite	7782-42-5	1.34E-04	
Molybdeum disulfide			1317-33-5	1.34E-04		
Diethylene glycol monoethyl ether			111-90-0	5.36E-04		
Fixed plate	Brass	7.342%	Cu	7440-50-8	1.383	
			Zn	7440-66-6	0.593	
	Nickel plating	0.011%	Fe	7439-89-6	3.95E-04	
			Ni	7440-02-0	0.003	
Case	Steel	15.309%	C	7440-44-0	0.008	
			Mn	7439-96-5	0.008	
			P	7723-14-0	0.002	
			S	7704-34-9	0.002	
			Si	7440-21-3	0.012	
			Al	7429-90-5	0.002	
			Fe	7439-89-6	4.086	
			Sn	7440-31-5	0.003	
	Tin plating	0.011%				
Fixed board	PCB	1.865%	Fiberglass	65997-17-3	0.221	
			Bisphenol A, epichlorohydrin tetrabromobisphenol A polymer	26265-08-7	0.201	BPA, halogen compound
			Cu	7440-50-8	0.080	
Shaft set	Brass	14.562%	Cu	7440-50-8	2.461	
			Fe	7439-89-6	0.035	
			Sn	7440-31-5	0.020	
			Zn	7440-66-6	1.403	
	Nickel plating	0.007%	Ni	7440-02-0	0.002	
Stop plate	Steel	3.348%	C	7440-44-0	7.22E-04	
			Si	7440-21-3	0.004	
			Mn	7439-96-5	0.011	
			P	7723-14-0	2.71E-04	
			Cr	7440-47-3	0.163	
			Ni	7440-02-0	0.076	
			Fe	7439-89-6	0.647	
Cover	Brass	0.535%	Cu	7440-50-8	0.101	
			Zn	7440-66-6	0.043	
	Nickel plating	0.007%	Fe	7439-89-6	2.88E-05	
			Ni	7440-02-0	0.002	
Conductor	Brass	3.036%	Cu	7440-50-8	0.572	
			Zn	7440-66-6	0.245	
	Tin plating	0.011%	Fe	7439-89-6	1.63E-04	
			Sn	7440-31-5	0.003	
Shaft	Steel	26.204%	C	7440-44-0	0.004	
			Mn	7439-96-5	0.147	
			Si	7440-21-3	0.022	
			P	7723-14-0	0.002	
			S	7704-34-9	0.018	
			Cr	7440-47-3	1.239	
			Ni	7440-02-0	0.575	
			Mo	7439-98-7	0.007	
			Cu	7440-50-8	0.153	
			Fe	7439-89-6	4.885	
Slider	Phosphor bronze	0.754%	Cu	7440-50-8	0.187	
			Sn	7440-31-5	0.016	
			Zn	7440-66-6	4.07E-04	
			Fe	7439-89-6	8.14E-05	
			P	7723-14-0	1.02E-04	
Washer	Steel	0.843%	C	7440-44-0	1.36E-04	
			Si	7440-21-3	0.001	
			Mn	7439-96-5	0.002	
			P	7723-14-0	6.80E-05	
			S	7704-34-9	2.27E-05	
			Cr	7440-47-3	0.038	
			Ni	7440-02-0	0.017	
			Fe	7439-89-6	0.169	
Nut	Carbon steel	4.385%	Fe	7439-89-6	1.180	
	Nickel plating	0.037%	Ni	7440-02-0	0.010	
O-ring	Silicone	0.918%	Vinylmethylsiloxane	68083-18-1	0.062	
			Silica	112926-00-8	0.160	
			Polydimethylsiloxane	70131-67-8	0.025	
Shaft oil	PAO lubricant	0.011%	Polyisobutylene	9003-27-4	0.002	
			PAO	68037-01-4	0.001	
			Fumed silica	68611-44-9	1.50E-04	
Total Mass					26.9120	grams