

Material Composition for 8140 Potentiometer

Sub-component	Material	% of Total Mass	Substance Name	CAS #	Substance Mass (grams)	Special Classification				
Housing	PBT plastic blend	19.35%	PBT	26062-94-2	2.7070					
			fiberglass	65997-17-3	1.2490					
			antimony oxide	1309-64-4	0.2080		antimony fire retardant			
	Lubricant	0.001%	alkyl/fluoroalkyl substituted arylamine diisocyanate reaction product	n/a	5.00E-05	non-Hazardous				
			trifluoropropylmethyl siloxane	63148-56-1	1.50E-04					
			bisphenol-A	80-05-7	5.94E-05		contains BPA			
	Epoxy	0.01%	calcium carbonate	471-34-1	0.0006					
			diethylene triamine	111-40-0	0.0001					
			epichlorohydrin	106-89-8	0.0000	Halogen				
			epoxy resin, epichlorohydrin/bisphenol A	25068-38-6	0.0005	Halogen & BPA				
			iron oxide, black	1317-61-9	0.0001					
			SiO2, amorphous	7631-86-9	0.0000					
	Marking	0.001%	trimethyloethane triglycidyl	30499-70-8	0.0005					
			cobalt napthenate	61789-51-3	0.0000					
			cobalt neodecanonate	27253-31-2	0.0000					
			Hexahydro-1, -3 isobenzofuranedione	85-42-7	0.0000					
			trade secret	n/a	2.48E-04		non-hazardous			
Front lid	PBT plastic blend	5.39%	PBT	26062-94-2	7.53E-01					
			fiberglass	65997-17-3	0.3480					
			antimony oxide	1309-64-4	0.0580		antimony fire retardant			
	Bushing insert	11.08%	Cu	7440-50-8	1.4670					
			Zn	7440-66-6	0.8420					
	Bushing Ni plating	0.02%	Pb	7439-92-1	0.0760	RoHS exemption 6(c)				
Ni			7440-02-0	0.0040						
Rear lid	PBT plastic blend	2.51%	PBT	26062-94-2	0.3510					
		fiberglass	65997-17-3	0.1620						
		antimony oxide	1309-64-4	0.0270	antimony fire retardant					
Slip ring	brass ring	1.15%	Cu	7440-50-8	0.1740					
			Zn	7440-66-6	0.0740					
			Pb	7439-92-1	0.0001		RoHS exemption 6(c)			
	Cu plating	0.005%	Cu	7440-50-8	1.00E-03					
			Ni plating	0.01%	Ni		7440-02-0	3.00E-03		
					Au plating		0.03%	Au	7440-57-5	0.0060
Slider block	PBT plastic blend	0.92%	PBT	26062-94-2	0.1510					
			fiberglass	65997-17-3	0.0400					
			Sb	7440-36-0	0.0020					
			antimony oxide	1309-64-4	6.00E-03		antimony fire retardant			
Contact spring	Cu Be alloy	0.27%	Cu	7440-50-8	5.60E-02					
			Be	7440-41-7	0.0010		beryllium Trace element			
			Co	7440-48-4	0.0001					
Contact	Cu plating	0.260%	Cu	7440-50-8	0.0560					
	Ni plating	0.003%	Ni	7440-02-0	0.0007					
	Au plating	0.005%	Au	7440-57-5	1.00E-03					
	Pd alloy	0.06%	Pd	7440-05-3	6.00E-03					
			Ag	7440-22-4	0.0050					
			Pt	7440-06-4	0.0001					
	Cu	7440-50-8	0.0020							
	Ni	7440-02-0	0.0001							
	Rotor	PA66 blend	3.39%	nylon 6,6	32131-17-2		5.11E-01			
fiberglass				65997-17-3	2.19E-01					
Shaft	stainless steel	35.08%	Fe	7439-89-6	5.2310					
			C	7440-44-0	0.0080					
			Cr (0)	7440-47-3	1.4340					
			Mn	7439-96-5	0.0080					
			Mo	7439-98-7	3.80E-02					
			P	7723-14-0	8.00E-03					
			S	7704-34-9	0.0300					
			Ni	7440-02-0	0.7550					
			Si	7440-21-3	0.0380					
			trade secret	n/a	0.0002		non-hazardous			
			Terminals	brass	0.34%		Cu	7440-50-8	5.20E-02	
							Zn	7440-66-6	2.20E-02	
							Fe	7439-89-6	0.0000	
	Pb	7439-92-1				0.0000	RoHS exemption 6(c)			
Cu	7440-50-8	0.0009								
Internal ribbon	Ni alloy	0.003%	Au	7440-57-5	0.0006					
			Cu	7440-50-8	7.00E-07					
			C	7440-44-0	4.90E-07					
			Fe	7439-89-6	0.0000					
			Mn	7439-96-5	0.0000					
Washer(s)	stainless steel	0.051%	Ni	7440-02-0	0.0007					
			S	7704-34-9	0.0000					
			Si	7440-21-3	1.05E-06					
			Fe	7439-89-6	8.00E-03					
			C	7440-44-0	0.0000					
Cr (0)	7440-47-3	0.0020								
Mn	7439-96-5	0.0001								
Ni	7440-02-0	0.0008								
Lockwasher	spring steel	1.49%	Si	7440-21-3	5.21E-05					
			Fe	7440-44-0	2.00E-03					
			Fe	7439-89-6	0.3170					
			Mn	7439-96-5	0.0020					
			P	7723-14-0	0.0001					
	Ni Plating	0.02%	S	7704-34-9	0.0001					
			Ni	7440-02-0	4.00E-03		Can be external nickel			
Nut	brass	5.62%	Cu	7440-50-8	7.44E-01					
			Zn	7440-66-6	0.4270					
			Pb	7439-92-1	0.0390		RoHS exemption 6(c)			
	Zn or Ni plating	0.03%	Zn or Ni	7440-66-6 or 7440-02-0	0.0060					
Resistance coil			NiCr alloy	0.67%	Ni	7440-02-0	0.1090			
	Cr (0)	7440-47-3			2.60E-02					
	Al	7429-90-5			4.00E-03					
	Si	7440-21-3			0.0009					
	Mn	7439-96-5			0.0030					
	Cu	7440-50-8			0.0020					
	Cu	7440-50-8			2.1630					
	polyimide, aromatic	25038-81-7			1.14E-01					
	trade secret	n/a			1.00E-03	non-hazardous				
	trade secret	n/a			0.3500	non-hazardous				
	Conductive Plastic	1.63%								
	Total mass					21.5212	grams			