

Model 78P & 78S material declaration. BI Technologies Corporation

10/17/2016

LF and non-LF option content are identical after 2/1/2005

No content is banned per E.U. RoHS. Average mass of 78 trimmer is 2.4 grams each (rounded value). Prepared by Eric Arnold (714) 447-2565
Weights above 1 milligram rounded to the nearest mg. Values less than 1 milligram given in scientific notation.

Sub-component	Material	% of total mass	Substance name	CAS #	Substance Weight (grams)	Special classification		
Housing	PBT blend	38.7%	PBT	26062-94-2	0.691			
			Fiberglass	65997-17-3	0.184			
			SbO	1309-64-4	0.046	Fire retardant		
	Ink marking	0.001%	cobalt napthenate	61789-51-3	5.10E-07			
			cobalt neodecanonate	27253-31-2	5.10E-07			
			Hexahydro-1,3-isobenzofurandione	85-42-7	2.55E-06			
			C	7440-44-0	1.02E-05			
			trade secret	n/a	1.63E-05	Non-hazardous & unregulated		
Shaft	Brass	23.0%	Cu	7440-50-8	0.337			
			Zn	7440-66-6	0.194			
			Pb in brass	7439-92-1	0.017	Pb in copper alloy (RoHS exemption 6c)		
	Lubricant	0.018%	silicone lubricant	trade secret	4.40E-04	Non-hazardous & unregulated		
Slider block	PBT blend	1.06%	PBT	26062-94-2	0.019			
			Fiberglass	65997-17-3	0.006			
			PTFE	009002-84-0	7.54E-04			
Contact	Cu alloy wire	0.064%	Cu	7440-50-8	8.43E-04			
			Zn	7440-66-6	4.14E-04			
			Ni	7440-02-0	2.76E-04			
	Nickel alloy bar	0.042%	Cu	7440-50-8	5.00E-07			
			Ni	7440-02-0	8.46E-04			
			C	7440-44-0	6.00E-07			
			Mn	7439-96-5	2.50E-06			
			Fe	7439-89-6	1.50E-04			
			S	7704-34-9	5.00E-08			
				Si	7440-21-3	5.00E-07		
		Lubricant	0.066%	silicone lubricant	trade secret	0.002	Non-hazardous & unregulated	
	Terminals	Cu wire	3.8%	Cu	7440-50-8	0.090		
Sn				7440-31-5	4.35E-06			
Potting	Epoxy	15.9%	SiO2, amorphous	7631-86-9	0.019			
			modified aliphatic polyamine	trade secret	0.076			
			hydantoin epoxy resin	15336-82-0	0.019			
			epichlorohydrin / polyglycol epoxy resin	26142-30-3	0.019			
			epichlorohydrin/bisphenol A epoxy resin	unknown	0.227	BPA		
			cycloaliphatic epoxy resin	2386-87-0	0.019			
Substrate	Alumina	16.2%	Al2O3	1344-28-1	0.371			
			SiO2, amorphous	7631-86-9	0.004			
			TiO2	13463-67-7	0.002			
			Fe2O3	1309-37-1	0.002			
			MnO2	1313-13-9	0.004			
			MgO	1309-48-4	0.002			
			CaO	1305-78-8	0.002			
Conductor	AgPd thick film	1.18%	Al2O3	1344-28-1	1.90E-04			
			SiO2, amorphous	7631-86-9	8.31E-04			
			TiO2	13463-67-7	1.90E-04			
			PbO	1317-36-8	0.001	Pb in electronic ceramic (RoHS exemption 7c-1)		
			ZnO	1314-13-2	2.06E-04			
			B2O3	1303-86-2	7.00E-05			
			ZrO2	1314-23-4	1.68E-05			
			BaO	1304-28-5	2.16E-04			
			Ag	7440-22-4	0.023			
			Pd	7440-05-3	0.003			
Resistor	Ruthenate thick film	0.050%	Al2O3	1344-28-1	1.59E-05			
			SiO2, amorphous	7631-86-9	1.34E-04			
			TiO2	13463-67-7	1.59E-05			
			MnO2	1313-13-9	7.20E-06			
			PbO	1317-36-8	3.51E-04	Pb in electronic ceramic (RoHS exemption 7c-1)		
			ZnO	1314-13-2	3.83E-05			
			B2O3	1303-86-2	4.48E-05			
			ZrO2	1314-23-4	1.07E-05			
			BaO	1304-28-5	1.81E-05			
			Ag	7440-22-4	4.33E-05			
			Pd	7440-05-3	5.51E-05			
			Steatite	14807-96-6	2.40E-06			
			Bi2Ru2O6	unknown	5.40E-05			
			Pb2Ru2O6+x	unknown	3.84E-04	Pb in electronic ceramic (RoHS 7c-1)		
			RuO2	12036-10-1	2.52E-05			