

Material Composition for EN11-VNM1BF15

Sub-component	Material	% of Total Mass	Substance Name	CAS #	Substance Mass	Special Classification	
Shaft	Al alloy	29.965%	Si	7440-21-3	0.0044	RoHS Exemption 6(b)	
			Fe	7439-89-6	0.0077		
			Cu	7440-50-8	0.0552		
			Mn	7439-96-5	5.52E-04		
			Mg	7439-95-4	0.0055		
			Pb	7439-92-1	0.0022		
			Bi	7440-69-9	0.0022		
			Zn	7440-66-6	0.0033		
			Al	7429-90-5	1.0219		
Cover	PBT blend	1.661%	PBT polymer	30965-26-5	0.0214	Halogenated epoxy, contains BPA Antimony fire retardant	
			Brominated epoxy resin	68928-70-1	0.0153		
			Antimony oxide	1309-64-4	0.0061		
			Glass fiber	65997-17-3	0.0183		
Ring button	Steel	3.349%	C	7440-44-0	0.0010		
			Si	7440-21-3	2.48E-04		
			Mn	7439-96-5	5.33E-04		
			P	7723-14-0	1.20E-05		
			S	7704-34-9	1.20E-05		
			Cu	7440-50-8	2.50E-05		
			Fe	7439-89-6	0.1222		
Frame	Steel	25.640%	C	231-153-3	0.0019		
			Mn	231-105-1	0.0019		
			P	231-768-7	3.78E-04		
			S	231-722-6	3.78E-04		
			Si	231-130-8	0.0028		
			Al	231-072-3	4.16E-04		
	Oil	0.000%		Fe	231-096-4	0.9367	
				Calcium sulfonate	61789-86-4	4.80E-04	
				Octadecyl 3,5-Di(tert)-butyl-4-	2082-79-3	2.00E-05	
Shaft set	Zn alloy	33.115%	Al	7429-90-5	0.0488	RoHS Exemption 6(b)	
			Cu	7440-50-8	0.0061		
			Mg	7439-95-4	6.10E-04		
			Fe	7439-89-6	1.22E-04		
			Pb	7439-92-1	1.20E-05		
			Cd	7440-43-9	1.00E-06		
			Sn	7440-31-5	1.00E-06		
			Zn	7440-66-6	1.1634		
Conductor base	POM	1.038%	Acetal polymer	unknown	0.0382		
			Stabilizer	unknown	7.79E-04		
Click	Steel	0.245%	C	7440-44-0	7.00E-06		
			Si	7440-21-3	5.00E-06		
			Mn	7439-96-5	1.14E-04		
			P	7723-14-0	3.00E-06		
			S	7704-34-9	trace		
			Cr	7440-47-3	0.0018		
			Ni	7440-02-0	8.31E-04		
			Fe	7439-89-6	0.0072		
Spacer plate	Steel	0.245%	C	7440-44-0	7.00E-06		
			Si	7440-21-3	5.00E-06		
			Mn	7439-96-5	1.14E-04		
			P	7723-14-0	3.00E-06		
			S	7704-34-9	trace		
			Cr	7440-47-3	0.0018		
			Ni	7440-02-0	8.31E-04		
			Fe	7439-89-6	0.0072		
Conductor	Phosphor bronze	1.275%	Cu	7440-50-8	0.0431	RoHS exemption 6(c)	
			Sn	7440-31-5	0.0038		
			Zn	7440-66-6	9.40E-05		
			Pb	7439-92-1	5.00E-06		
			Fe	7439-89-6	1.90E-05		
			P	7723-14-0	2.40E-05		
	Ag plating	0.000%	Ag	506-64-9	2.00E-03		
Slider base	PBT blend	2.229%	PBT polymer	30965-26-5	0.0287	Halogenated epoxy, contains Antimony fire retardant	
			Brominated epoxy resin	68928-70-1	0.0205		
			Antimony oxide	1309-64-4	0.0082		
			Glass fiber	65997-17-3	0.0246		
Slider	Phosphor bronze	1.163%	Cu	7440-50-8	0.0394	RoHS exemption 6(c)	
			Sn	7440-31-5	0.0034		
			Zn	7440-66-6	8.60E-05		
			Pb	7439-92-1	4.00E-06		
			Fe	7439-89-6	1.70E-05		
			P	7723-14-0	2.20E-05		
	Ag plating	0.000%	Ag	506-64-9	2.00E-03		
Lubricating oil	PAO lubricant	0.043%	Polyisobutylene	9003-27-4	3.60E-04		
			PAO	68037-01-4	0.0016		
			Fumed silica	68611-44-9	4.00E-05		
Shaft oil	PAO lubricant	0.033%	Polyisobutylene	9003-27-4	0.0012		
			PAO	68037-01-4	7.00E-04		
			Fumed silica	68611-44-9	1.00E-04		
Total mass					3.6790	grams	