


MATERIAL DECLARATION SHEET

BOURNS®

Material Number	PF-EC1 Series (15~25A)			
Product Line	Power Fuses			
Compliance Date	2022/03/01			
RoHS Compliant	Yes	MSL	1	

No.	Construction Element(subpart)	Homogeneous Material	Material weight [g]	Homogeneous Material Substances	CASRN if applicable	Materials Mass %	Material Mass % of total unit wt.	Subpart mass of total wt. (%)
1	Fuse element wire	Silver	0.112	Silver	7440-22-4	100%	1.32%	1.32%
2	Inner cap-base	Copper	1.071728	Copper	7440-50-8	100%	12.62%	12.62%
3	Inner cap-plating	Tin plating	0.021872	Tin	7440-31-5	100%	0.26%	0.26%
4	Outer cap-base	Brass	2.171497	Copper	7440-50-8	68%	17.39%	25.57%
				Zinc	7440-66-6	32%	8.18	
5	Outer cap-plating	Nickel plating	0.031503	Nickel	7440-02-0	100%	0.37%	0.37%
6	Ceramic tube	Ceramic	4.29	Silicon dioxide	14808-60-7	53.74%	27.15%	50.52%
				Aluminum oxide	1344-28-1	34.48%	17.42%	
				Magnesium oxide	1309-48-4	10.32%	5.21%	
				Misc., not to declare	-	1.46%	0.74%	
7	Quartz sand	Silica sand	0.685	Silicon dioxide	15468-32-3	100%	8.07%	8.07%
8	Solder	SnCu solder	0.018	Tin	7440-31-5	96.3%	0.202%	0.21%
				Copper	7440-50-8	2.3%	0.005%	
				Rosin	8050-09-7	1.4%	0.003%	
9	Low melting point alloy	SnCu solder	0.0195	Sn	7440-31-5	97.7%	0.225%	0.23%
				Cu	7440-50-8	0.7%	0.001%	
				Rosin	8050-09-7	1.6%	0.004%	

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10	Paper	Paper	0.05	Silicified Microcrystalline Cellulose	9004-34-6	5.25%	0.0310	0.59%
				Cellulose	65996-61-4	89.5%	0.5280	
				Misc., not to declare	-	5.25%	0.0310	
11	Marking Ink	Marking ink (dry)	0.00045	Synthetic epoxy resin	25068-38-6	40.1	0.0040	0.01%
				Pigment	Confidential	17.9	0.0018	
				Carbon black	1333-86-4			
				Titanium dioxide	13463-67-7	3.2	0.0003	
				Polydimethylsiloxane	63148-62-9			
Polyamide resin	68410-23-1	38.8	0.0039					
12	Silicone	Silicon	0.0195	Silicon dioxide	14808-60-7	34%	0.0782	0.23%
				Monovinyl terminated dimethyl (xanthane and polyoxonane)	68083-19-2	20%	0.046	
				Vinyl MQ resin mixture	68988-89-6	20%	0.046	
				Dimethyl methyl hydrogen (deoximane and polyxanthane)	68037-59-2	20%	0.046	
				Aluminum oxide	1344-28-1	6%	0.0138	
		Total Weight	8.49105					

This Document was updated on: 2022/03/01

Important remarks: It is the responsibility of the user to verify they are accessing the latest version.