

# **CONSTITUTION MATERIALS LIST**

Product	LED
Series	SML-M1x
Mass (mg)	5.540150

The RoHS directive,REACH regulation,and other laws and regulations related to the management of environmentally hazardous substances come into effect. When developing products,the global environmental load must be considered. ROHM pursues green procurement and endeavors to increase the detection accuracy of chemicals contained in parts and procured materials while at the same time placing great importance on the internal chemical management system that was built to ensure that no prohibited substances are procured,used,or shipped in order to provide a steady supply of worry-free products.

OThis item is in compliance with RoHS.

### OPb free

	製品本体 Product								
Nº	構成	構成材料 部位 Material Name (r		物質名 Substance Name		CAS №	含有量 Content Weight (mg)	含有率(%) 〈/.製品重量〉 Content per Product Weight	含有率(%) 〈/ 構成材料〉 Content per Part Weight
1	基板	基材	2.610150	エポキシ樹脂	Epoxy Resin	-	0.590000	10.6495	22.6041
	Substrate	Substrate Material		ガラスクロス	Glass Cloth	65997-17-3	0.530000	9.5665	20.3053
		端子処理		銅	Copper(Cu)	7440-50-8	1.140000	20.5771	43.6757
		Electrode		クロム及び3価クロム化合物	Chromium Chemical Compound	-	0.000020	0.0004	0.0008
				チタン化合物	Titanium Chemical Compound	-	0.070000	1.2635	2.6818
				ニッケル	Nickel(Ni)	7440-02-0	0.270000	4.8735	10.3442
				亜鉛	Zinc(Zn)	7440-66-6	0.000100	0.0018	0.0038
				砒素	Arsenic(As)	7440-38-2	0.000030	0.0005	0.0011
				金	Gold(Au)	7440-57-5	0.010000	0.1805	0.3831
2	ダイボンディング材		0.050000	銀	Silver(Ag)	7440-22-4	0.040500	0.7310	81.0000
	Die-Bonding Paste			ビスフェノールA型エポキシ樹脂	Bisphenol A Epoxy Resin	9003-36-5	0.006000	0.1083	12.0000
				その他	Other	-	0.003500	0.0632	7.0000
3	ホンディングワイヤー Bonding wire			金	Gold(Au)	7440-57-5	0.010000	0.1805	100.0000
4	反射ケース		2.340000	液晶ポリマー	Liquid crystalline polymer	96563-77-8	1.170000	21.1186	50.0000
	Reflector			ガラス繊維及び無機フィラー	glass fiber with filler	65997-17-3	1.170000	21.1186	50.0000
5	接着剤		0.170000	ビスフェノールA型エポキシ樹脂	Bisphenol A Epoxy Resin	25068-38-6	0.128000	2.3104	75.2941
	Bond			タルク	tark	14807-96-6	0.017000	0.3069	10.0000
				酸化チタン	oxide titunium	13463-67-7	0.012000	0.2166	7.0588
				ジシアンジアミド	dicyandiamide	461-58-5	0.005000	0.0903	2.9412
				シリカ	Silica(SiO2)	7631-86-9	0.008000	0.1444	4.7059
6	封止樹脂		0.320000	エポキシ樹脂	Epoxy Resin	-	0.313600	5.6605	98.0000
	Resin			その他	Other	-	0.006400	0.1155	2.0000
7	LED素子		0.040000	ガリウム	Gallium(Ga)	7440-55-3	0.023200	0.4188	58.0000
	LED Die			砒素	Arsenic(As)	7440-38-2	0.015200	0.2744	38.0000
				インジウム	Indium(In)	7440-74-6	0.000300	0.0054	0.7500
				アルミニウム	Aluminum(Al)	7429-90-5	0.000100	0.0018	0.2500
				リン	Phosphorus(P)	7723-14-0	0.000300	0.0054	0.7500
				<b>金</b>	Gold(Au)	7440-57-5	0.000500	0.0090	1.2500
				その他	Other	-	0.000400	0.0072	1.0000
					Total	-	5.540150	100.0000	

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