

【Deletion】 April 11, 2024

One of part numbers in Appendix (3) (*Irregularities identified in periodic audits*) on page 9 is removed.

Reason: Product has been confirmed as not being subject to any irregularity identified in periodic audits.

Product Type: Encapsulation material

Production Location: Shanghai (China)

Part Number: CV4200 Series

Please note that this removal does not change the total number of the part numbers that are subject to irregularities.

March 15, 2024

Identification of irregularities in additional part numbers and an additional factory in third-party certification

Tokyo, Japan – Following an internal investigation, Panasonic Industry Co., Ltd. (“PID”) has identified instances of irregularities in the process of the third-party certification by UL Solutions (“UL”). Since the initial announcement on January 12, 2024, PID has identified instances of irregularities impacting 55 additional part numbers (31 molding materials and 24 semiconductor encapsulation materials)^{*1} and instances of irregularities at the Enns (Austria) plant. Including the additional part numbers, the total number of parts impacted is 107, involving plants in 9 locations. As a result of PID’s internal investigation, the following facts have been confirmed and PID has proposed the following action plans.

1. Additional part numbers and an additional factory subject to irregularities

(Please refer to the appendix for details by part numbers and a factory)

(1) Additional part numbers

■ Instances of irregularities in the registration practices:

The following products were manufactured and sold using different constituents from the certified product constituents without changing the registered part number:

- Molding material: 6 part numbers

 - 2 of those part numbers did not meet a certain threshold for their flammability ratings.

- Semiconductor encapsulation materials: 6 part numbers

 - 6 of those part numbers did not meet a certain threshold for their flammability ratings.

■ Irregularities in periodic audits:

PID has identified that some test samples were prepared using different constituents from those that were registered with UL and were submitted during periodic audits:

- Molding material: 43 part numbers

 - 13 of those part numbers have already been announced as part numbers subject to

irregularities on January 12, 2024

- Semiconductor encapsulation materials: 40 part numbers
16 of those part numbers have already been announced as part numbers subject to irregularities on January 12, 2024

(2) Additional factory

■ Instances of data irregularities:

There were some irregularities in the data used for the flammability ratings of circuit board materials when applying for the registration of a new product. After registration by UL, the product was manufactured and sold at the following location:

- Enns (Austria) plant
The subject product is R-1566S which PID has already announced as a part number subject to irregularities on January 12, 2024.

2. PID's response plan

- (1) PID will communicate directly with customers who have purchased the identified products and discuss future actions. Please submit any inquiries regarding PID's products at the following websites:

(Japanese) <https://industrial.panasonic.com/jp/notice/em240118>

(English) <https://industrial.panasonic.com/ww/notice/em240118>

(Chinese) <https://industrial.panasonic.cn/ea/notice/em240118>

- (2) PID has not received reports of issues associated with the reported irregularities identified with the abovementioned products. PID will continue to investigate and keep its customers updated.

- (3) PID has already reported to UL regarding this matter and is discussing with UL on the further actions.

- (4) The details of additional part numbers subject to irregularities that have been identified this time are shown in the link below.

If PID identifies any additional part numbers that are subject to irregularities, PID will announce such irregularities on the following websites.

(Japanese) <https://industrial.panasonic.com/jp/electronic-materials/notice/partnumberlist2024>

(English) <https://industrial.panasonic.com/ww/electronic-materials/notice/partnumberlist2024>

(Chinese) <https://industrial.panasonic.cn/ea/electronic-materials/notice/partnumberlist2024>

*1 The breakdown of the 55 additional part numbers impacted by the irregularities is as follows:

- Instances of irregularities in the registration practices
(6 part numbers of molding materials and 6 part numbers of semiconductor encapsulation materials)
- Instances of irregularities in periodic audits
(30 part numbers of molding materials and 24 part numbers of semiconductor encapsulation materials)

5 of those molding materials part numbers and 6 of those semiconductor encapsulation materials part numbers are subject to both instances of irregularities in the registration practices and instances of irregularities in periodic audits.

<Appendix>

■List of Part Numbers by irregularity and Plant

New additions to the announcement dated January 12, 2024 are shown in bold and marked with a circle “●” in the "Additions" column below.

(1) Instances of irregularities in the authentication registration practices

Product Type	Production Location	Relevant Period	Part No. Count	Part Number	Characteristic	Status	Part No. Count	Additions
Molding material	Yokkaichi	1980s to present	23	CE5100 Series	Flammability	Underachieved	13	-
				CE5410 Series		Underachieved		-
				MBF(x3) Series		Underachieved		-
				MBF(x3)G Series		-		-
				MP(x3)E, MP(x4)E Series		-		-
				MP(x3)A, MP(x4)A Series		Underachieved		-
				CY2410 Series		Underachieved		-
				CY3319 Series		-		-
				CY47(x)1 Series		Underachieved		-
				CY4815 Series		Underachieved		-
				CY94(x)0 Series		-		-
				CY8611, CY9613 series		-		-
				MBS2(a2)V+ Series		Underachieved		-
				MBT1(a3)V+, MBT1(a3)-+ series		Underachieved		-
				MBT120-+, MBT120V+ Series		Underachieved		-
				CE2925 Series		Underachieved		-
				CU(x4) Series		-		-
				MBS230V(x2) Series		Underachieved		●
				CE2915 Series		-		●
				CE3110 Series		-		●
CE3400 Series	-	●						
MP(x3), MP(x4) Series	Underachieved	●						
MBS2(b2)H+ Series	-	●						
Shanghai	Under investigation							
Ayutthaya	2016 to	1	MP(x3)A, MP(x4)A Series	Flammability	Underachieved	1	●	

	(Thailand)	present											
Encapsulation material	South Yokkaichi	1980s to present	22	CV5765 Series	Flammability	Underachieved	22	-					
				CV5960 Series		Underachieved		-					
				CV4185, CV4185A Series		Underachieved		-					
				CV8710K Series		Underachieved		-					
				CV3400@ Series		Underachieved		-					
				CV3400H, CV3400VN Series		Underachieved		-					
				CV3600 Series		Underachieved		-					
				CV4160 Series		Underachieved		-					
				CV4180 Series		Underachieved		-					
				CV4400@ Series		Underachieved		-					
				CV8400 Series		Underachieved		-					
				CV8410 Series		Underachieved		-					
				CV8560 Series		Underachieved		-					
				CV8710 Series		Underachieved		-					
				CV8715 Series		Underachieved		-					
				CV3300@ Series		Underachieved		-					
				CV8760 Series		Underachieved		-					
				CV8210 Series		Underachieved		-					
				CV4100 Series		Underachieved		-					
				CV4160A Series		Underachieved		•					
				CV4280 Series		Underachieved		•					
				CV8714 Series		Underachieved		•					
				Shanghai		2005 to present		9	CV3380Z, CV4380 Series	Flammability	Underachieved	9	•
									CV4100 Series		Underachieved		•
									CV4160A Series		Underachieved		•
									CV4180 Series		Underachieved		•
									CV4185, CV4185A Series		Underachieved		•
									CV4200 Series		Underachieved		•
									CV4400@ Series		Underachieved		•
CV8400 Series	Underachieved	•											
CV8710 Series	Underachieved	•											
Ayutthaya (Thailand)	1995 to present	12	CV3300@ Series	Flammability	Underachieved	12	•						
			CV3380Z, CV4380 Series		Underachieved		•						
			CV4100 Series		Underachieved		•						
			CV4160 Series		Underachieved		•						
			CV4180 Series		Underachieved		•						
			CV4185, CV4185A Series		Underachieved		•						
			CV4200 Series		Underachieved		•						
			CV4280 Series		Underachieved		•						
			CV4400@ Series		Underachieved		•						
			CV8212, CV8213, CV8713,		Underachieved		•						

				CK-6100E(&2) Series				
				CV8410 Series		Underachieved		•
				CV8710 Series		Underachieved		•
				R-8700(SB)		-		-

Product Type	Production Location	Relevant Period	Part No. Count	Part Number	Characteristic	Status	Part No. Count	Additions
Circuit board material	Ayutthaya (Thailand)	2003 to present	2	R-8700(EF)	Tracking resistance	Underachieved	1	-
				R-8700(SB)		-		-
	South Yokkaichi	2011 to 2021	1	R-1586(H)	-	-	-	-

(2) Instances of irregularities in data

(a) There were some irregularities in the data for circuit board materials in relation to Relative Thermal Index (“RTI”) when applying for new product registration.

Product Type	Production Location	Relevant Period	Part No. Count	Part Number	Additions
Circuit board material	Koriyama	2011 to present	8	R-1515E	-
		2013 to present		R-15T1	-
		2019 to present		R-5515	-
		2015 to present		R-5785	-
		2021 to present		R-5795	-
		No sales results		R-9575Q	-
		2012 to 2020		R-1533	-
		2015 to 2019		R-1533E	-
	Guangzhou	2019 to present	5	R-5375	-
		2017 to present		R-5575	-
		2019 to present		R-5785	-
		2021 to present		R-5795	-
		2016 to present		R-A555	-
	Suzhou	2012 to present	3	R-1515E	-
		2016 to present		R-A555	-
		2013 to 2020		R-1533	-
	Taiwan	2012 to present	3	R-1515E	-
		2016 to present		R-A555	-
		2011 to 2016		R-1533	-

(b) There were some irregularities in the data for circuit board materials in relation to flammability ratings when applying for new product registration

Product Type	Production Location	Relevant Period	Part No. Count	Part Number	Additions
Circuit board material	Koriyama	2017 to present	1	R-1566S	-
	Guangzhou	2020 to present	1	R-1566S	-
	Enns (Austria)	2019 to present	1	R-1566S	•
	Guangzhou	2016 to present	1	R-A555	-
	Suzhou	2016 to present	1	R-A555	-
	Taiwan	2016 to present	1	R-A555	-

(3) Irregularities identified in periodic audits

Product Type	Production Location	Relevant Period	Part No. Count	Part Number	Additions
Molding material	Yokkaichi	2014 to present	44	CY861130GN	-
		2012 to present		CE3010 Series	•
				CE3110 Series	•
				CE3110 (x3)B Series	•
				CE3400 Series	•
				CE5100 Series	•
				CE5410 Series	•
				MBF(x3) Series	•
				MBF(x3)G Series	•
				MBF901G65 Series	•
				MP(x3), MP(x4) Series	•
				MP(x3)A, MP(x4)A Series	•
				CY97(x2) Series	•
				ME(x3)J Series	•
				CY3410 Series	•
CN6853 Series	•				
CN44(x)4 (x2) Series	•				
CN6641 Series	•				

				CN6741 Series	•
				CN6771 Series	•
				CY2410 Series	•
				CY3312 Series	•
				CY3319 Series	•
				CY47(x)1 Series	•
				CY4815 Series	•
				CY6548 Series	•
				CY94(x)0 Series	•
				CN9606 Series	•
				CY9610 (x2)HG Series	•
				CY4715 (x2) Series	•
				CY4200 Series	•
				MBS2(a2)V+ Series	•
				MBS2(b2)H+ Series	•
				MBS230V(x2) Series	•
				MBS235H+ Series	•
				MBS3(a)V+ Series	•
				MBT120-+, MBT120V+ Series	•
				MBT130V+, MBT130-+ Series	•
				CE2840 Series	•
				CE2870 (x3)H Series	•
				CZ(x4)T85 Series	•
				CU(x4) Series	•
				CZ(x4)E8(f) Series	•
				CZ1500T Series	•
	Shanghai	Under investigation			
	Ayutthaya (Thailand)	2012 to present	2	MP(x3)A, MP(x4)A Series	•
				CU(x4) Series	•
Encapsulation material	South Yokkaichi	2012 to present	28	CV3200 Series	•
				CV3300@ Series	•
				CV3380Z, CV4380 Series	•
				CV3400@ Series	•
				CV3400H, CV3400VN Series	•
				CV3600 Series	•
				CV4100 Series	•
				CV4113 Series	•
				CV4160 Series	•
				CV4180 Series	•

				CV4185, CV4185A Series	•
				CV4200 Series	•
				CV4280 Series	•
				CV4400@ Series	•
				CV4500 Series	•
				CV8210 Series	•
				CV8300 Series	•
				CV8400 Series	•
				CV8410 Series	•
				CV8460 Series	•
				CV8560 Series	•
				CV8600 Series	•
				CV8710 Series	•
				CV8710BME, CV8710BMEP Series	•
				CV8712B Series	•
				CV8714 Series	•
				CV8715 Series	•
				CV8760 Series	•
	Shanghai	2012 to present	4	CV4200 Series	•
	Ayutthaya (Thailand)	2012 to present	30	CV3200 Series	•
				CV3300@ Series	•
				CV3380Z, CV4380 Series	•
				CV3400@ Series	•
				CV3600 Series	•
				CV4100 Series	•
				CV4113 Series	•
				CV4160 Series	•
				CV4160A Series	•
				CV4180 Series	•
				CV4182 Series	•
				CV4185, CV4185A Series	•
				CV4200 Series	•
				CV4280 Series	•
				CV4400@ Series	•
				CV8100 Series	•
				CV8210 Series	•
				CV8212, CV8213, CV8713, CK-6100E(&2) Series	•
				CV8300 Series	•
				CV8301 Series	•
				CV8400 Series	•

				CV8460 Series	•
				CV8610 Series	•
				CV8710 Series	•
				CV8712P Series	•
				AMC-2P Series	•
				AMC-2RC Series	•
				CK-2500(*) Series	•
				CK-5000 Series	•
				3400FPG Series	•
Circuit board material	Ayutthaya (Thailand)	Starting time under investigation - 2021	2	R-8700/R-8705	-
				R-8500/R-8505	-

About Panasonic Industry Co., Ltd.

Panasonic Industry Co., Ltd. was established on April 1, 2022 as an operating company in charge of the device business within the Panasonic Group in line with its shift to an operating company system. The mission of the company states that "We will open the way to a better future and continue to contribute to an affluent society through a variety of device technologies." On a global basis, the company has about 42,000 employees and achieved net sales of 1,149.9 billion yen for the fiscal year ended March 31, 2023. Against the backdrop of a labor shortage in manufacturing, the explosion of data with the rise of the information-based society, and greater demands for the environment and safety for the mobility society, the company will focus on areas where ongoing evolution is required and continue to provide customer value with distinctive features of unique material and process technologies such as capacitors, compact servomotors, EV relays, and electronic materials. Learn more about Panasonic Industry at <https://www.panasonic.com/global/industry>.