## **PRODUCT / PROCESS CHANGE NOTIFICATION**

1. PCN basic data		
1.1 Company	life, augmented	STMicroelectronics International N.V
1.2 PCN No.		MICROCONTROLLERS/24/14781
1.3 Title of PCN		ST Rousset (France) Implementation of a PBO (Polybenzoxazole) protective layer over product passivation for STM8AL3x 64k (AUTOMOTIVE) listed products
1.4 Product Category		STM8AL3x
1.5 Issue date		2024-08-27

2. PCN Team		
2.1 Contact supplier		
2.1.1 Name	PIKE EMMA	
2.1.2 Phone	+44 1628896111	
2.1.3 Email	emma.pike@st.com	
2.2 Change responsibility		
2.2.1 Product Manager	Ricardo Antonio DE SA EARP	
2.1.2 Marketing Manager	Veronique BARLATIER	
2.1.3 Quality Manager	Pascal NARCHE	

3. Change		
3.1 Category	3.2 Type of change	3.3 Manufacturing Location
	Any change in step sequence or removed step or new step introduction with potential impact on product reliability	ST Rousset (France)

4. Description of change			
	Old	New	
4.1 Description	The wafer passivation layer has no protective layer.	Implementation of a PBO (Polybenzoxazole) protective layer on top of the wafer passivation layer is proposed to customer.	
4.2 Anticipated Impact on form,fit, function, quality, reliability or processability?	Reliability will be improved - PBO is a stress relief coating used as a protective layer for passivation layer.		

5. Reason / motivation for change		
	Customer request for automotive F79K product to lower the risk of passivation scratch and have better reliability. PBO on top of die is a protection against external impact.	
5.2 Customer Benefit SERVICE IMPROVEMENT		

6. Marking of parts / traceability of change		
6.1 Description	traceability ensured by ST internal tools	

7. Timing / schedule		
7.1 Date of qualification results	2025-01-31	
7.2 Intended start of delivery	2025-02-28	
7.3 Qualification sample available?	Upon Request	

8. Qualification / Validation			
8.1 Description 14781 PCN14781 MDRF-GPM-RER2411 - PBO 79K - rel plan.pdf			
8.2 Qualification report and qualification results	Available (see attachment)	Issue Date	2024-08-27

## 9. Attachments (additional documentations)

14781 Public product.pdf 14781 PCN14781 MDRF-GPM-RER2411 - PBO 79K - rel plan.pdf 14781 PCN14781 - MRDF-GPM PBO\_Implementation\_context.pdf

10. Affected parts			
10. 1 Current		10.2 New (if applicable)	
10.1.1 Customer Part No 10.1.2 Supplier Part No		10.1.2 Supplier Part No	
2518173	STM8AL3188TCX		

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