PRODUCT / PROCESS CHANGE NOTIFICATION

1. PCN basic data			
1.1 Company		STMicroelectronics International N.V	
1.2 PCN No.		MDG/22/13205	
1.3 Title of PCN		TPM VFQFPN32 – Molding resin upgrade to ULA	
1.4 Product Category		VFQFPN32 package for product lines ST33TPHF20, ST33TPHF2E, ST33TPHF2X	
1.5 Issue date		2022-01-19	

2. PCN Team		
2.1 Contact supplier		
2.1.1 Name	NEMETH KRISZTINA	
2.1.2 Phone	+49 89460062210	
2.1.3 Email	krisztina.nemeth@st.com	
2.2 Change responsibility		
2.2.1 Product Manager	Marie-France FLORENTIN	
2.1.2 Marketing Manager	Denis FARISON	
2.1.3 Quality Manager	Mickael DENAIS-ALLICHON	

3. Change		
3.1 Category	3.2 Type of change	3.3 Manufacturing Location
General Product & Design	(Not Defined)	Amkor ATP3

4. Description of change		
	Old	New
4.1 Description	The reference of the resin qualified is "Hitachi CEL 9220 HF13".	In order to meet reliability requirements for industrial and communication equipments, the resin used in the VFQFPN32 package for product lines ST33TPHF20, ST33TPHF2E, ST33TPHF2X will be modified to include a ULA resin. The reference of the ULA resin that will be qualified is "Sumitomo EME-G700SY"
4.2 Anticipated Impact on form,fit, function, quality, reliability or processability?	Impact on reliability Form: no impact (no change for visual appearance including colour, marking, surface finish) - Fit: no impact (no change for external dimensions and tolerances) - Function: no impact (no change for electrical, environmental, mechanical, thermal performance characteristics)	

5. Reason / motivation for change	
5.1 Motivation	The FIT (failure in time) related to alpha particle will be decreased by a factor 10 with the ULA resin.
5.2 Customer Benefit	QUALITY IMPROVEMENT

6. Marking of parts / traceability of change	
6.1 Description	A new Finished Good codification will be created. This Finished Good codification is present on the label.

7. Timing / schedule	
7.1 Date of qualification results	2022-09-05
7.2 Intended start of delivery	2023-01-08
7.3 Qualification sample available?	Upon Request

8. Qualification / Validation		
8.1 Description		

8.2 Qualification report and qualification results	In progress	Issue Date	
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9. Attachments (additional documentations)	
13205 Public product.pdf 13205 PCN TPM VFQFPN32 - Molding resin upgrade to ULA v1.0.pdf	

10. Affected parts		S
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
	ST33HTPH2X32AHD5	

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