





Fraunhofer TESTED® DENSO WAVE Inc. Resin (U-100 C-N) Report No. DE 2006-1161

Statement of Qualification

Single product Chemical Resistance

Statement of Qualification • Single product

Customer	DENSO WAVE Inc. 1, Yoshiike, Kusaki, Agui-cho, Chita-gun 470-2297 Aichi	Test result / Classification	The chemical resistance of Resin (U-100 C-N) was classified according to ISO 4628-1 and VDI 2083 Part 17 with the following result:						
	Japan		Chemical resistance	1 h	3h	6h	24h		
			Formalin 37 %	0	0	0	0		
Component tested			Ammoniac 25 %	0	0	0	0		
Category:	Materials		Hydrogen peroxide 30 %	0	0	0	0		
			Sulfuric acid 5 %	0	0	0	0		
Subcategory:	Plastics		Phosphoric acid 30 %	0	0	0	0		
Product name:	Resin (U-100 C-N) (manufacturing date: 4/2020; color: transparent; serial number:		Peracetic acid 15 %	0	0	0	0		
	PLATE_2020-08)		Hydrochloric acid 5 %	0	0	0	0		
			Isopropanol 100 %	0	0	0	0		
Chemical resistance test			Sodium hydroxide 5 %	0	0	0	0		
			Sodium hypochlorite 5 %	0	0	0	0		
Standards/Guidelines: Testing equipment: Test environment parameters: Test procedure parameters:	 VDI 2083 Part 17; ISO 2812-1; ISO 4628-1 The norms stated generally refer to the version valid at the time of the tests. Microscope Camera Temperature:		damage was assessed accordin 4628-1 and VDI 2083 Part 17: 0 = excellent 3 = 1 = very good 4 =	1 = very good 4 = very weak					
	 Chemicals: Ammoniac 25 % Hydrogen peroxide 30 % Sulfuric acid 5 % Phosphoric acid 30 % Peracetic acid 15 % Hydrochloric acid 5 % Isopropanol 100 % Sodium hydroxide 5 % Incubation time: 	and international standards. In cases where r regulations and norms applicable at the time	The measuring devices used for the qualification tests are calibrated at regular intervals; their results can be traced and international standards. In cases where no national standards exist, the test procedure implemented complies regulations and norms applicable at the time of the test. The relevant documentation can be viewed on request at Detailed information and parameters of the test environment can be found in the Fraunhofer IPA test report.						
	Fraunhofer	Fraunhofer Institute for Manufacturing Engineering and Automation IPA Department of Ultraclean Technology and Micromanufacturing Nobelstrasse 12 70560 Stuttgart	DE 1409-725 Stuttgart, July 15 Report No. first document Place, date of first document DE 2006-1161 Stuttgart, Novem Report No. current document Place, current date	nent issued		broduct in and is valid by ears from date the do ssued. The be verified	the named its original sta I for a period m the current ocument was e document ca		

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