



# Fraunhofer

## TESTED<sup>®</sup> DEVICE

Rite-Hite Corporation  
LS Clean US 05 / 2021  
**Report No. RI 2108-1247**

Statement of  
Qualification

Single product  
Chemical Resistance

Statement of Qualification · Single product

Customer	Rite-Hite Material Handling Equipment (Kunshan) Co., Ltd. 110 Donglong Road Kunshan Jiangsu 215300 China
Component tested	
Category:	Material
Subcategory:	Plastics
Product name:	VINYL,27OZ,WHITE,TOPCOAT, 118" (delivery date to Rite-Hite: 4/8/2021; color: 907907; article number: 8556)
Chemical resistance test	
Standards/Guidelines:	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.
Testing equipment:	<ul style="list-style-type: none"><li>Microscope</li><li>Camera</li></ul>
Test environment parameters:	Temperature:.....22 °C ±0.5 °C
Test procedure parameters:	Immersion method <ul style="list-style-type: none"><li>Chemicals:..... Formalin 37 % ..... Ammoniac 25 % ..... Hydrogen peroxide 30 % ..... Sulfuric acid 5 % ..... Phosphoric acid 30 % ..... Peracetic acid 15 % ..... Hydrochloric acid 5 % ..... Isopropanol 100 % ..... Sodium hydroxide 5 % ..... Sodium hypochlorite 5 %</li><li>Incubation time: ..... 1 h, 3 h, 6 h, 24 h</li></ul>

Test result / Classification

The chemical resistance of VINYL,27OZ,WHITE,TOPCOAT, 118" was classified according to ISO 4628-1 and VDI 2083 Part 17 with the following result:

Chemical resistance	1 h	3 h	6 h	24 h
Formalin 37 %	0	0	0	0
Ammoniac 25 %	0	0	0	0
Hydrogen peroxide 30 %	0	0	0	0
Sulfuric acid 5 %	0	0	0	0
Phosphoric acid 30 %	0	0	0	0
Peracetic acid 15 %	1	2	3	5
Hydrochloric acid 5 %	0	0	0	0
Isopropanol 100 %	0	0	0	4
Sodium hydroxide 5 %	0	0	0	0
Sodium hypochlorite 5 %	0	0	0	0

The classification is based on a worst-case consideration. In the process, damage was assessed according to the classification system used in ISO 4628-1 and VDI 2083 Part 17:

0 = excellent	3 = weak
1 = very good	4 = very weak
2 = good	5 = none


The measuring devices used for the qualification tests are calibrated at regular intervals; their results can be traced back to national and international standards. In cases where no national standards exist, the test procedure implemented complies with the technical regulations and norms applicable at the time of the test. The relevant documentation can be viewed on request at any time.

Detailed information and parameters of the test environment can be found in the Fraunhofer IPA test report.

Fraunhofer Institute for Manufacturing Engineering and Automation IPA

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on behalf of 	
Dr.-Ing. Frank Bürger, Project Manager Fraunhofer IPA	



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