



COMMERCIAL TESTING COMPANY

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Report Number 17-12080.4

DELIUS GmbH
Bielefeld, Germany

Test Number 4784-7874-1217R
March 22, 2016

Abrasion Resistance

Test Method: The material was tested in accordance with Federal Specification CCC-W-408D, *Wall Covering, Vinyl-Coated*, which covers the classification of wall covering according to its serviceability in use. The number of required cycles (double rubs) is done using a Wyzenbeck Precision Wear Tester equipped with 220 grit silicon carbide coated abrasive sheet. The tester is operated with a tension of 6 pounds force and the pressure set at 2 pounds force. The wallcovering shall have no visual evidence of fiber show-through or damage to the supporting substrate.

Material Tested: The client submitted a sample of vinyl wall covering identified as **20 oz. Printed and Embossed Type II Non-woven Backed Commercial Vinyl Wallcovering (YM)**.

Test Data: The client requested the sample be exposed to 300 cycles, the requisite number for a Type II classification.

Test Result: The material tested, **20 oz. Printed and Embossed Type II Non-woven Backed Commercial Vinyl Wallcovering (YM)**, meets Type II requirements for abrasion resistance of Federal Specification CCC-W-408D. Overall classification can not be based on a single performance property.

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(Authorized Signature)

This report is provided for the exclusive use of the client to whom it is addressed. It may be used in its entirety to gain product acceptance from duly constituted authorities. The test results presented in this report apply only to the samples tested and are not necessarily indicative of apparent identical or similar materials. Sample selection and identification were provided by the client. A sampling plan, if described in the referenced standard, was not necessarily followed. This report, or the name of Commercial Testing Company, shall not be used under any circumstance in advertising to the general public.