



COMMERCIAL TESTING COMPANY

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Report Number 17-12080.10

DELIUS GmbH
Bielefeld, Germany

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

Cold Crack 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. A specimen from each direction of the wallcovering and a 0.50-inch mandrel are conditioned at $20 \pm 4^\circ\text{F}$ for a period of 30 minutes. The specimen is bent 180° around the mandrel with the uncoated side of the wall covering contacting the mandrel. The specimen is removed and a visual inspection done to detect cracks. To pass, the wall covering must not crack during testing.

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:

Machine Direction — No Change
Cross Machine Direction — No Change

Test Result: The material tested, **20 oz. Printed and Embossed Type II Non-woven Backed Commercial Vinyl Wallcovering (YM)**, meets Type II requirements for cold crack 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.