

Test report

Report no.:
890702-3-Rev. 01



**DANISH
TECHNOLOGICAL
INSTITUTE**

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02 December 2019
Page 1 of 3
No. of Encl.: 0
Init.: AGS
Cosign.: DECR

Customer: E-AT ApS
Solvangsvej 16
DK-4681 Herfølge

Samples: Two VentGuard Ventilation Coating (SC50) film to metallic substrates
(see page 2)

Sampling: The samples have been received here on 09 October 2019

Period: The testing has been carried out on 28 October 2019

Procedure: ASTM D3359, 2017 Standard Test Methods for Rating Adhesion by Tape Test-
Method A

Test performed by: Afshin Ghanbari-Siahkali, Senior Specialist, Ph.D.

Result: See page 3

Storage: According to the general terms and conditions of The Danish Technological
Institute

Remarks: The name of customer in the report has been changed. The name of coating is
corrected from VC50 to SC50.
*Revised date 02 December 2019. This report replaces all previous reports concerning this
test.*

Conditions: Accredited testing was carried out in compliance with international requirements
(EN/ISO/IEC 17025:2005) and in compliance with Danish Technological Institute's
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Place: Danish Technological Institute, Taastrup, Plastics and Packaging Technology

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Test

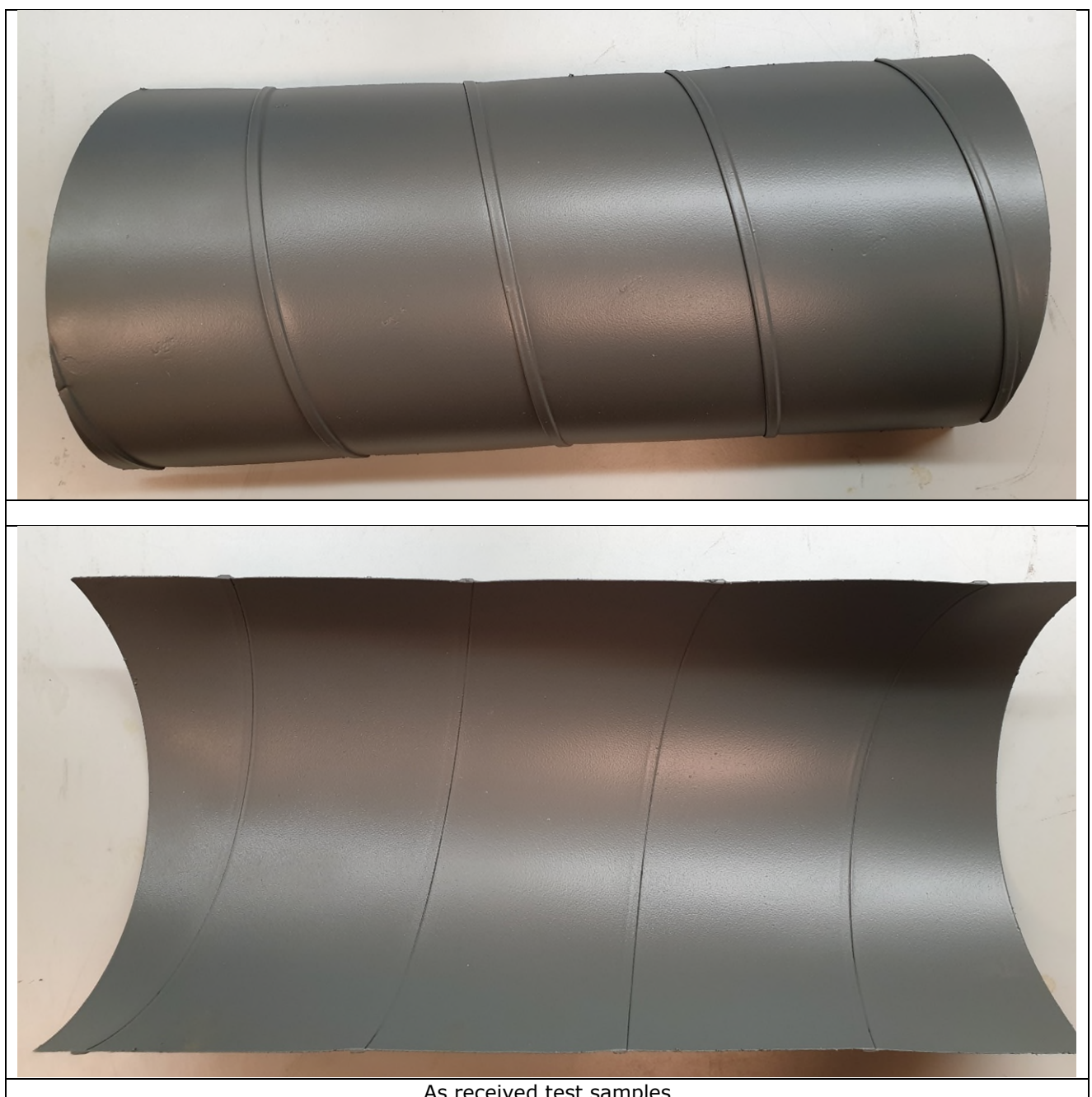
Determination of adhesion of relatively ductile coating films to metallic substrates

Test method

ASTM D3359, 2017 Standard Test Methods for Rating Adhesion by Tape Test, Method A

Samples

The VentGuard Ventilation Coating (SC50) film to metallic substrates are shown in Fig. 1 were received at the DTI-laboratory on 9 October 2019.



As received test samples

Figure 1: As-received test samples for rating adhesion test

Sample preparation

The test samples were prepared by the client. The as-received test samples were prepared for the test by making two cuts in the film each about 40 mm long that intersect near their middle with a smaller angle of between 30 and 45°.

The test samples were conditioned at (23 ±2) °C / (50 ±5) % RH in climate control laboratory until the time of testing.

Equipment

Adhesion: NT-Cutter
 Calliper: Mitutoyo 0 - 150 mm, (32T11.01)
 Data logger for
 Temperature & Humidity: ECOLOG, (32T13.60)

Test results

All test samples were kept conditioned for two weeks prior to the adhesion testing at (23 ±2) °C / (50 ±5) % RH. The results are based on mean values of six measurements (Fig. 2 and Table 1).



Figure 2: Test specimens before and after the adhesion test

Table 1: Summary of abrasion resistance test results

Sample ID	Specimen no.	X-cut area of Coating inner side	X-cut area of Coating outer side
VentGuard Ventilation Coating (SC50) on metal plate	1	5A No peeling or removal	5A No peeling or removal
	2	5A No peeling or removal	5A No peeling or removal
	3	5A No peeling or removal	5A No peeling or removal

It has been evaluated that the film coating is firmly adhered to metallic substrate and cannot be peeled off.