

FABO S.p.a.
Via Cecinese
51036 Pistoia
ITALY

18 November 2024/AH97

Confirmation about the removability of adhesive applications (packaging tapes)

1. Test

The adhesive applications described have been tested according to INGEDE Method 12 and the evaluation performed by the "Assessment of Printed Product Recyclability – Scorecard for the Removability of Adhesive Applications" (EPRC 2018).

2. Specifications

The adhesive applications have been tested with a laboratory sample of an adhesive tape each applied to a sheet of paper.

Products:	FABO 219SP, 248 BOPP adhesive packaging tapes
Adhesive application:	Solvent free water-based acrylic adhesive
Adhesive tape trade name:	FABO 219SP, 248 with custom made adhesive
Adhesive tape manufacturer:	FABO S.p.a.
Adhesive layer thickness:	17 µm, 28 µm
Coating area:	Flat spread (roller)

With the results given, for other tapes that consist of the same base tape and adhesive as tapes 219SP and 248 (tested), differing only in the thickness of the adhesive layer (in between 17 µm and 28 µm), comparable removability results can be expected (also for printed/printable tapes or different colours of the BOPP base tape).

3. Evaluation of the test result

The total score is 100 points for both tests. The adhesive applications are “good” removable.

Remark: The EPRC Scorecard (chapter 4.3) says:

If a printed product contains adhesive applications but no macrostickies can be detected, the reject of the laboratory screening must be assessed. There are two extreme cases thinkable – either the adhesive is still attached to a medium (label, tape, etc.) or it is not detectable. In the first case the product will receive the full score for both parameters. In the second case it has to be assumed that all stickies are of low particle size. These products receive scores of -20 for S_{2000} and 0 for A_t . The adhesive tape did not fragment and adhere on the filter; therefore, it receives the full score (Case 1).

4. Detailed results

	S_{2000}^*	A_t^{**}	Total
Packaging Tapes 219SP and 248 BOPP backing	20	80	100
Maximum points achievable	20	80	100

* Share of macrosticky area below a particle size of 2000 μm (identical equivalent circle diameter)

** Theoretical area of macrostickies in the pulp after industrial screening

5. Rating of the results

The test result is rated according to the following table:

Score	Evaluation of Removability	Packaging Tape 219SP and 248 BOPP backing
71 to 100 points	Good	x
51 to 70 points	Fair	
0 to 50 points	tolerable	
negative (failed to meet the threshold)	insufficient	

Image: Example of products tested (transparent version)



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Confirmation about the removability of adhesive applications (packaging tapes)

1. Test

The adhesive applications described have been tested according to INGEDE Method 12 and the evaluation performed by the "Assessment of Printed Product Recyclability – Scorecard for the Removability of Adhesive Applications" (EPRC 2018).

2. Specifications

The adhesive applications have been tested with a laboratory sample of an adhesive tape each applied to a sheet of paper.

Products:	FABO 309HM, 348HM BOPP adhesive packaging tapes
Adhesive application:	Hotmelt SIS (styrene block copolymers)
Adhesive tape trade name:	FABO 309HM, 348HM with custom made adhesive
Adhesive tape manufacturer:	FABO S.p.a.
Adhesive layer thickness:	14 µm, 24 µm
Coating area:	Flat spread (roller)

With the results given, for other tapes that consist of the same base tape and adhesive as tapes 309HM and 348HM (tested), differing only in the thickness of the adhesive layer (in between 14 µm and 24 µm), comparable removability results can be expected (also for printed/printable tapes or different colours of the BOPP base tape).

3. Evaluation of the test result

The total score is 100 points for both tests. The adhesive applications are “good” removable.

Remark: The EPRC Scorecard (chapter 4.3) says:

If a printed product contains adhesive applications but no macrostickies can be detected, the reject of the laboratory screening must be assessed. There are two extreme cases thinkable – either the adhesive is still attached to a medium (label, tape, etc.) or it is not detectable. In the first case the product will receive the full score for both parameters. In the second case it has to be assumed that all stickies are of low particle size. These products receive scores of -20 for S_{2000} and 0 for A_t . The adhesive tape did not fragment and adhere on the filter; therefore, it receives the full score (Case 1).

4. Detailed results

	S_{2000}^*	A_t^{**}	Total
Packaging Tapes 309HM and 348HM BOPP backing	20	80	100
Maximum points achievable	20	80	100

* Share of macrosticky area below a particle size of 2000 μm (identical equivalent circle diameter)

** Theoretical area of macrostickies in the pulp after industrial screening

5. Rating of the results

The test result is rated according to the following table:

Score	Evaluation of Removability	Packaging Tape 309HM and 348HM BOPP backing
71 to 100 points	Good	x
51 to 70 points	Fair	
0 to 50 points	Tolerable	
negative (failed to meet the threshold)	Insufficient	

*Image: Examples of products
(transparent version tested)*

