

PLASTICS AND TAPES RESISTANCE TO PROTECTIVE WAXES AND DEWAXING MATERIAL**Application**

This method is used to determine the resistance of materials such as painted or pigmented exterior parts (including those adhered to by tape), vinyl roof coverings, and plastic-covered metals to protective waxes, and dewaxing compounds and acrylic copolymer protective coatings.

Apparatus and Materials Required**Sponge****Chamois Leather****Chemicals**

Conventional protective wax coatings/dewaxing systems

Protective wax coating: U-M9G021-A or Hydrowachs W556, available from
Pfinders (Germany)

Dewaxing material: U-M5B-8000 or HF180, available from Chemie
X 2000 (Germany)

Acrylic protective coatings/alkaline remover systems

Protective wax coating: U-MJ099-8002

Remover: U-M5B-8037

Deionized or Distilled Water

20 microS/cm at 25 °C maximum conductivity (ASTM D 1125)

Cloth or Paper Towels**High Pressure Cleaning Equipment**

Frank Type HW 810 DFS or equivalent

- Flat water spray nozzle type 174 MEG 2506

Source: Frank'sche Eisenwerke AG
D-35683 Dillenburg (Germany)

Date	Action	Revisions
2001 04 02	Revised	Editorial – no technical change A. Cockman
1996 07 12		

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Conditioning and Test Conditions

All test values indicated herein are based on material conditioned in a controlled atmosphere of 23 +/- 2 °C and 50 +/- 5 % relative humidity for not less than 24 h prior to testing and tested under the same conditions unless otherwise specified.

Procedure

1. Apply a generous layer of protective wax (approximately 12 – 15 micrometers thick) to a suitable sample of each material to be evaluated.
2. Hold for 72 h at 23 +/- 2 °C, or as specified in the applicable Engineering Material Specification or Manufacturing Process Standard.
3. Remove the coating as follows:

The equipment is filled with water and dewaxing material (separate tank) and heated to 80 - 85 °C. Before testing, the addition of dewaxing material must be regulated to 2 - 3 % by volume in the jet of water, and the equipment must be adjusted as specified below. The jet of material has to be directed vertically onto the surface. Afterwards the addition of dewaxing material will be stopped. After a total contact time of 10 minutes, rinse the specimen with water for 30 +/- 2 sec and dry the specimen subsequently.

Test pressure (kPa)	3000 +/- 50
Distance to part (mm)	50 +/- 3
Testing Time (s)	60 +/- 2
Flow Rate (L/h)	600 +/- 30

Note: All settings must be measured immediately behind the nozzle.

4. After 1 hour and 24 hours examine for spots, discoloration, stress cracking, or other defects as specified in the applicable Engineering Material Specification or Manufacturing Process Standard and report.
5. In case of no other requirements, expose the specimen in Weatherometer for 1600 hours according to FLTM BO 101-01 (artificial weathering).
6. For tapes use acrylic protective coating/alkaline remover.

Chemicals, materials, parts, and equipment referenced in this document must be used and handled properly. Each party is responsible for determining proper use and handling in its facilities.