

**PAINTS COATINGS AND SIMILAR PRODUCTS  
HEAT STABILITY OF THE FILM (TOUCH-UP)**

Page 1/4

**NO USE RESTRICTION**

This is a translation, the French original shall be used in all cases of litigation

Date of translation : 16/11/2004

**1.OBJECT AND FIELD OF APPLICATION**

The object of this method is to visually assess the colour and gloss variation of the film following repeated bakings after touch-up.

**2.PRINCIPLE**

The test consists of effecting multiple touch-ups on a specimen and assessing the gloss and colour by comparison with a reference specimen.

**3.EQUIPMENT**

- Paint spraying equipment, method D55 1172.
- Regulated enclosure  $\pm 2$  °C with a maximum of 200 °C (convection).
- Products prepared according to method D55 1339.
- Nylon fabric hood for masking (made from material used for dust covers) (see sketch in the appendix).
- Abrasive paper 400.
- Chamois leather.
- Shears.

**4.PREPARATION OF TEST SPECIMENS**

- A primed specimen 300 x 70 x 0,9 mm.
- Remove the under-coat on the primed surface of the specimen. This is done using abrasive paper 400, then the specimen is wiped with a clean chamois leather.

COATINGS – FILM STABILITY	D27 1352	2/4
---------------------------	----------	-----

## 5.MODE OF OPERATION

- Spray paint the test panel horizontally (see sketch in the appendix).
- Bake the plate in the enclosure which reproduces the production conditions perfectly.  
These conditions are: the rise in temperature, the baking time and the maximum temperature observed on the car body in production (normally the temperature on the roof panel).
- Remove from the enclosure and cool for a minimum of 2 hours at ambient temperature.
- Cut the specimen using the shears in order to obtain:
  - 1 specimen, 180 mm in length,
  - 1 reference specimen with comparison panel (see sketch in the appendix).
- Mask the lower two thirds with a smaller panel and adhesive paper, after having identified the top of the panel.
- Sand down, then re-spray the upper third of the specimen (see sketch in the appendix).
- Remove the mask and bake.
- Allow cooling for a minimum of 2 hours.
- Position the nylon hood on the specimen on the end identified as the top (see sketch in the appendix).
- Sand and spray the lower thirds.
- Bake the specimen following the previous conditions without removing the hood.
- Remove the hood and allow cooling for two hours.
- Wipe the specimen and its reference specimen with a soft cloth and in an observation room compare these according to test method D15 1343.

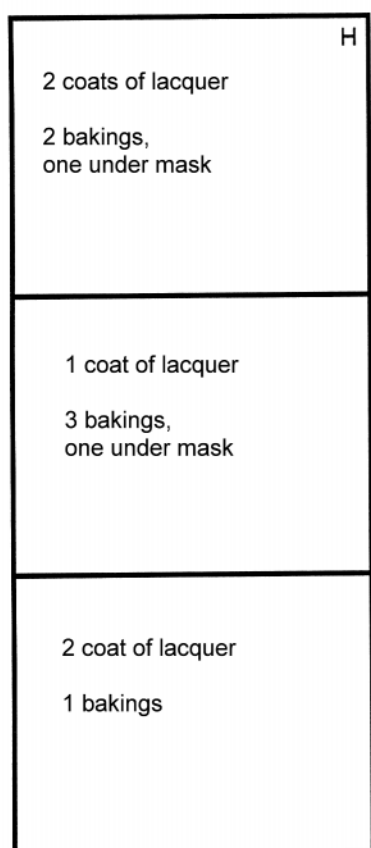
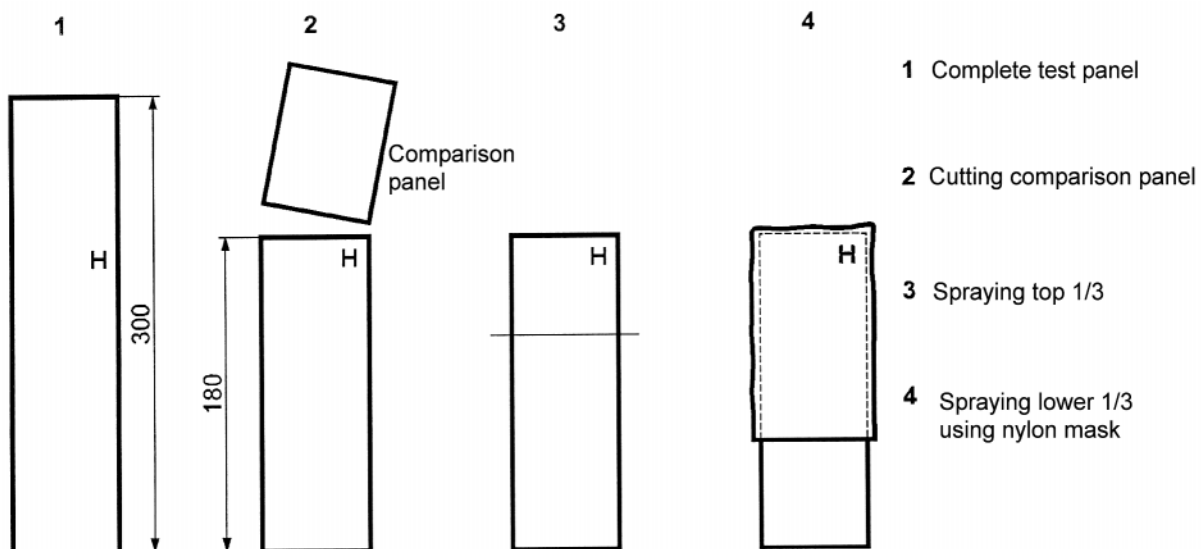
## 6.EXPRESSION OF RESULTS

The gloss and colour assessment are given either as "acceptable" or "not acceptable".

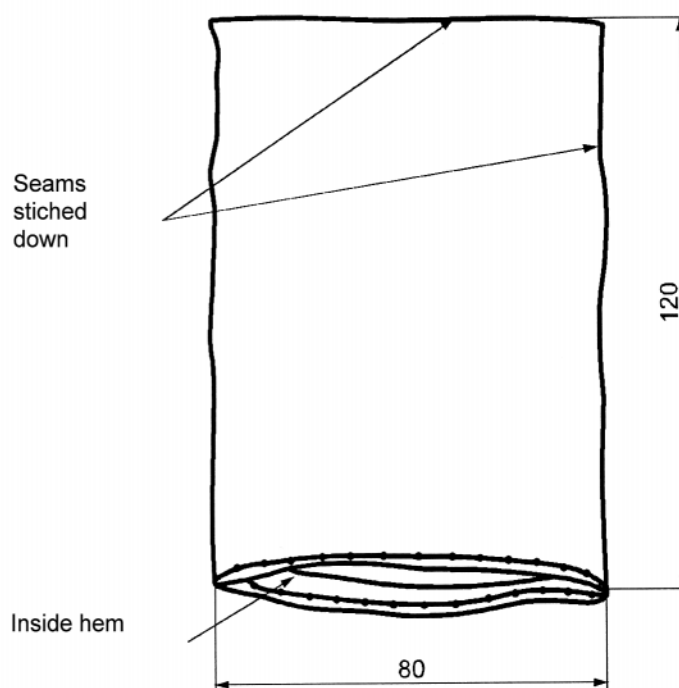
## 7.TEST REPORT

The test report must indicate the assessments recorded for the gloss and colour as well as any specific conditions which may have affected the results.

## APPENDIX



SPECIMEN



NYLON HOOD

## 8.RECORDS AND REFERENCE DOCUMENTS

### 8.1.RECORDS

#### 8.1.1.CREATION

- OR: 01/09/1979 – CREATION OF THE NORME

#### 8.1.2.SUBJECT OF THE MODIFICATION

- A: 27/05/1997 – INTRODUCTION TO IDEM (French only)
- 

### 8.2.REFERENCE DOCUMENTS

#### 8.2.1.PSA DOCUMENTS

##### 8.2.1.1.Normes

D15 1343, D55 1172, D55 1339.

##### 8.2.1.2.Others

#### 8.2.2.EXTERNAL DOCUMENTS

### 8.3.EQUIVALENT TO:

### 8.4.CONFORMS TO:

### 8.5.KEY-WORDS