

Resistance of a coating to cracking

The Conical Mandrel Bend Tester offers a practical means to determine the ability of a coating to resist cracking and or detachment when being subject to bending around a conical mandrel, additionally flexibility properties can also be determined on flexible substrates.

For a multi-coat system, each coat may be tested separately or as a complete system.

Method of use

Set the operating arm of the drawbar over the clamping plate and place the panel with the coated side facing the clamping plate and hold with the securing screws.

Note: To prevent the coating being damaged during bending by the drawbar, place a piece of paper between the coated side and the drawbar.

Move the operating lever through approximately 180° angle at a uniform speed over 2- 3 seconds.

If the purpose of the test is to determine elongation of the coating, the operating lever should be rotated more slowly over approximately 15 seconds.

View the coating immediately either visually or with a times 10 magnification. Determine the length of the crack, (measured from the small end of the mandrel) calculate the mean of three determinations.

The position where the crack stops can be taken as the point of resistance to cracking.

Features

- 200 mm long panel capacity
- Conical Mandrel diameters, 38 mm down to 3 mm at the small end
- Study construction
- Long service life mandrel
- Stainless Steel Conical Mandrel and Roller
- Four holes in the base for securing to a workbench



Appearance: Deformation: **Conical Mandrel Bend Tester (SH801)**

Standards

ASTM D522 Test Method A
BS 3900 E11
ISO 6860

Ordering information

Product Ref	Description
SH801	Conical Mandrel Bend Tester

Owing to continuous development, we reserve the right to introduce improvements and modify specifications without prior notice.

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