

Chamberlain Plastics International Limited

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PRODUCT DATA SHEET

Product: *Metalon Laminates With Special Decorative Effects*
(Matt, Hair-line, Dyed, NBS)

Scope

1. This data sheet outlines the requirement for a bi-laminate of metallised polyester film and pvc, or PETG suitable for decorative applications intended for interior use. The polyester film may incorporate a special surface effect and/or the laminate maybe embossed to a specified pattern. If required, the polyester film maybe top-coated with an ink receptive lacquer, coded TC200, and is compatible with most vinyl inks. TC200 is not available on FNM5 or pattern embossed laminates.

NB: Some inks can have a negative effect on TC200, and the user is advised to assess the suitability of the material for their own application.

Where TC200 is incompatible, a bright, treated polyester should be tried. Polish embossed laminates may be overlaminated with a 0.05mm static cling polythene film for surface protection. The protective film is not available on TC200 coated or pattern embossed material. The PVC face may be Pressure Sensitive Adhesive Backed, if required.

NOTE: Where laminate is provided with a metallised film on both sides, the consistency of the reverse side surface appearance cannot be guaranteed as this surface was in contact with a rubber backing roller during the laminating process.

Description

1. The polyester film maybe clear, dyed, matt, and/or brushed (hair-line) and evenly metallised on one side, and in a nominal thickness of 0.012mm, or 0.023mm where brushed film is used. Where the film is dyed a slight variation in colour is unavoidable due to production limitations.
2. The base film, when coded FNM, is a smooth grey plasticised vinyl in nominal thicknesses of 0.10mm, 0.15mm, 0.20mm.
3. When coded R800 and R801, the base film is a smooth clear, medium impact modified rigid vinyl in nominal thickness' of 0.15mm, 0.20mm and 0.30mm, or a smooth, white rigid vinyl in nominal thickness of 0.35mm.
4. When coded FNM4, the base film is a smooth white, plasticised vinyl designed for pressure sensitive adhesive applications in nominal thickness' of 0.10mm, 0.20mm and 0.30mm.
5. When coded FNM5, the base film is a smooth white, plasticised, fire retardant pvc available in nominal thickness of 0.10mm and 0.20mm. Polish laminates in 0.20mm thickness achieve Class 0 when tested to BS476 parts 6/7.
6. When coded APET, the base film is a smooth clear PETG and is available in nominal thickness of 0.30mm.

Typical Characteristics

Characteristic	Method	Value
Tensile Strength.	ASTM D-882A	27.5 Kgf/mm ² (MD)
Elongation.	ASTM D-882A	50% (MD)
Colour	Internal	DE 5.0
Polyester/PVC Adhesion.	Internal.	350N/m minimum.
Total Thickness	Internal.	Sum of the component films \pm 10%.
Dimensional Stability.	10 mins at 100c	5% maximum.
Shelf Life.		6 months from receipt when stored in conditions not exceeding 20c/50% relative humidity.

Users of METALON film and laminates are recommended to consult Chamberlain Plastics International Limited Health and Safety literature.

Information contained in this publication is to the best of our knowledge accurate at the time of issue and is given in good faith, but we are unable to accept responsibility in respect to factors which are outside our knowledge and control. We assume the user assesses the suitability of the product for their particular application. The data relates only to the specified product and does not relate to use in combination with any other material or in any process.

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Ordering Information

To help us determine your order requirements correctly, please specify the following information, where applicable:

- Chamberlain Product Code and/or description consisting of:
Thickness of the base PVC e.g. 0.10mm Silver Polish FNM, 0.15mm Gold 23 Cut Bead R800;
Description/colour reference e.g. 0.10mm Silver Polish FNM, 0.15mm Gold 23 Cut Bead R800, 0.15mm Matt Gold FNM4. Please include the full shade description of Gold (Gold 22, Gold 23 etc);
Emboss e.g. 0.10mm Silver Polish FNM, 0.15mm Gold 23 Cut Bead R800;
Base PVC code e.g. 0.10mm Silver Polish FNM, 0.15mm Gold 23 Cut Bead R800;
Whether a print receptive topcoat is required e.g. 0.10mm Silver Hairline Polish FNM + TC200.
- Finished width;
- Finished length;
- Roll format (Bobbins, reels, sheets, tape packs etc);
- Core inside diameter (76mm or 152mm);
- Direction of winding e.g. (Gold face wound inside, or outside).

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