

Chamberlain Plastics International Limited

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PRODUCT DATA SHEET

Product: **CP234: 0.15mm Chromium Polish Weatherable/TPO Laminate**

Scope

1. This data sheet outlines the requirement for a tri-laminate of clear protective release film, Chromium metallised UV stabilised polyester film and TPO suitable for bonding to extrusions intended for exterior use.

Description

1. The protective release polyester film is a clear film in a nominal thickness of 0.05mm.
2. The polyester film is a clear UV stabilised film in a nominal thickness of 0.05mm, evenly metallised on one side with Chromium metal.
3. The base film is a smooth, clear, grey rigid TPO in a nominal thickness of 0.15mm.

Typical Characteristics

Characteristic	Method	Value
Polyester/PVC Adhesion.	Internal.	3.00 N/25mm width minimum.
Total Thickness	Internal.	Sum of the component films \pm 10%.
Colour.	Minolta 508i Spectrophotometer.	DE 3.0
Dimensional Stability.	10 mins at 100c	3.5% maximum.
1000 hr Q-U-V Exposure.	8hr UV-A340 at 70c; 4hr Condensation at 50c.	No cracking, blistering, delamination or change in colour.
Heat Ageing.	250hr at 80c.	
Humidity Exposure.	250hr at 50c/98-100% rh.	
Cycle Test.	2 Cycles of: 17hr at -30c; 72hr at 80c; 24hr at 50c/98-100% rh; 7hr at -30c; 17hr at 50c/98-100% rh; 7hr at 80c; 24hr at 50c/98-100% rh;	No swelling, blistering, delamination or change in colour.
Chemical Resistance.	30min immersion in Petrol at room temperature; 60min immersion in 10% neutral detergent at room temperature; 60min immersion in Ethanol at room temperature; 60min immersion in Wax Polish at room temperature.	
Corrosion Resistance.	250hr immersion in 5% Salt solution at 40c; 250hr immersion in water at 40c; 24hr immersion in 10% Sodium Hydroxide solution at room temperature; 24hr immersion in 10% Sulphuric Acid solution at room temperature.	
Shelf Life.		12 months from receipt when stored in conditions not exceeding 20c/50% relative humidity.

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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).

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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