

Chamberlain Plastics International Limited

Unit M, Bury Close, Higham Ferrers, Northamptonshire, England, NN10 8HQ.
Telephone: +44 (0) 1933 353875, Facsimile: +44 (0) 1933 410206.

PRODUCT DATA SHEET

Product: **0.20mm Chromium Polish Weatherable CP5000/TPO Laminate**

Scope

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

Description

1. The protective release polyester film is a clear film in a nominal thickness of 0.05mm.
2. The acrylic film is a clear UV stabilised PMMA film in a nominal thickness of 0.075mm.
3. The polyester film is a clear film in a nominal thickness of 0.05mm, evenly metallised on one side with Chromium metal.
4. The base film is a smooth, rigid TPO in a nominal thickness of 0.20mm.

Typical Characteristics

Characteristic	Method	Value
Polyester/PVC Adhesion.	Internal.	10.00 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.
Xenon Exposure.	5000Kj.	No peeling, blistering, delamination. Change in colour less than DE 3.0.
Cycle Test.	4 Cycles of: 7.5hr at -30c; 0.5hr at 25c; 15.5hr at 80c; 0.5hr at 25c; 7.5hr at 30c; 0.5hr at 25c; 15.5hr at 50c/95% rh; 0.5hr at 25c;	No peeling, blistering, delamination.
Heat Ageing	400hr at 80c	
Moisture Resistance	400hr at 50c/95% rh.	
Chemical Resistance.	8 wipes Petrol at room temperature.	
Corrosion Resistance.	24hr immersion in 0.3% Salt solution; 1hr at 80c; 24hr immersion in 0.10N Potassium Hydroxide solution; 24hr immersion in 0.10N Hydrochloric Acid solution.	
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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