3M™ Polyester Label Material G02C3

Transcan Premium PT25 Matt Clear

Product Data Sheet

February 2012
Supersedes : September 2003

Product Description

3M Polyester Label Material G02C3 is a 25 micron, clear polyester labelstock with a matt print receptive topcoat. This product utilizes 3M™ Adhesive HP100, which provides high strength on a variety of surfaces including high surface energy (HSE) plastics and metals.

Product Descriptor / Dispatch Labelling

G02C3 Transcan Premium PT25 Matt Clear / HP100 / 90LK

Physical Properties

Not for specification purposes
(Calipers are nominal values)

Facestock	28 micron matt clear topcoated polyester
Adhesive	20 micron HP100 acrylic
Liner	93 micron, 90 g/m² white kraft liner

Key Features

- The product has a matt topcoat designed to accept variable information applied by thermal transfer printing methods. The topcoat also provides improved ink anchorage for traditional forms of press printing.
- Matt topcoat has excellent resistance to moisture and abrasion
- Polyester facestock offers good thermal stability and provides durability in harsh environments.
- Adhesive provides high ultimate adhesion on a variety of substrates, and offers good chemical and UV resistance.
- 90 g/m² kraft liner may improve lay-flat characteristics, and can be back printed.
- UL and cUL Recognized (File MH18072).

Application Ideas

- Barcode labels and rating plates
- Property identification and asset labeling
- Warning, instruction, and service labels for durable goods.
- Printable overlaminating film for domestic, retail and industrial markets

Performance Characteristics

Not for specification purposes

Standard Test Conditions are 23ºC and 50% Relative Humidity

180º Peel Adhesion tested using FINAT Test Procedure FTM 1 (300mm/min)
90ºPeel Adhesion tested using FINAT Test Procedure FTM 2 (300mm/min)

Adhesion	**20 Minutes at Standard Conditions**	
	180º Peel N/25mm	**90º Peel** N/25mm
Stainless Steel	13.3	10.6
ABS	11.2	7.8
Polycarbonate	12.1	8.7
Polypropylene	8.3	3.5

Adhesion	**72 Hours at 70ºC**	
	180º Peel N/25mm	**90º Peel** N/25mm
Stainless Steel	15.4	15.0
ABS	13.1	10.6
Polycarbonate	15.1	13.1
Polypropylene	6.8	3.9

Adhesion	**72 Hours at 40ºC and 95% RH**	
	180º Peel N/25mm	**90º Peel** N/25mm
Stainless Steel	16.2	12.3
ABS	12.4	7.0
Polycarbonate	14.0	5.2
Polypropylene	8.4	3.6

Liner Release tested using FINAT Test Procedures
FTM 3 (180º removal of liner from face material at 300mm/min)
FTM 4 (180º removal of liner from face material at 10m/min)

Liner Release	**Rate of Removal**	**Release Force**	**Units**
FTM 3	300 mm per min	43.5	cN/50mm
FTM 4	10 m per min	15.2	cN/25mm

Temperature resistance of label applied to stainless steel.
Other substrates should be tested as per application

Service Temperature	-40 to 150ºC
Minimum Application Temperature	5ºC

Processing

Printing:

	Facestock is topcoated for improved ink receptivity and is designed for thermal transfer printing. Resin ribbons are recommended for optimum durability. It is printable by standard roll processing methods including flexography, hot stamp, letterpress, and screen printing. The compatibility of ink systems and printing methods should be verified by testing in the actual process. **Die Cutting:** Rotary die cutting is recommended. Fanfolding of labels is not recommended. Small labels should be evaluated carefully. Winding tensions should be kept at a minimum to help prevent the adhesive from oozing. **Packaging:** Finished labels should be stored in plastic bags.
Special Considerations	For maximum bond strength, the surface should be clean and dry. Isopropyl alcohol is a typical cleaning solvent. **NOTE:** When using solvents, read and follow the manufacturer's precautions and directions for use. For best bonding conditions, application surface should be at room temperature or higher. Low temperature surfaces, below 5°C can cause the adhesive to become so firm that it will not develop maximum contact with the substrate. Higher initial bonds can be achieved through increased rubdown pressure.
Storage	Store at standard room temperature conditions of 21ºC and 50% relative humidity.
Shelf Life	At least 24 months from date of dispatch by 3M when stored in the original packaging at 21°C & 50 % relative humidity
For Additional Information	To request additional product information or to arrange for sales assistance, call…… Address correspondence to: 3M
Important Notice	All statements, technical information and recommendations contained in this document are based upon tests or experience that 3M believes are reliable. However, many factors beyond 3M's control can affect the use and performance of a 3M product in a particular application, including the conditions under which the product is used and the time and environmental conditions in which the product is expected to perform. Since these factors are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for the user's method or application. All questions of liability relating to this product are governed by the terms of the sale subject, where applicable, to the prevailing law

Values presented have been determined by standard test methods and are average values not to be used for specification purposes. Our recommendations on the use of our products are based on tests believed to be reliable but we would ask that you conduct your own tests to determine their suitability for your applications.
This is because 3M cannot accept any responsibility or liability direct or consequential for loss or damage caused as a result of our recommendations

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