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Performance Label Material 92979

Preliminary Product Data Sheet

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Supersedes: NEW

Product description

92979 MW POE175-350E/40-90DWG
3M Label Material 92979 is a printable white matt polyolefin synthetic paper labelstock. This product utilizes premium 3M™ Adhesive 350E and glassine liner. Material is dedicated for durable labels applied on curved surfaces including LSE substrates.

Physical properties
(calipers and coatweight are nominal values)

Facestock	175 micron, matt white polyolefin synthetic paper
Adhesive	40 g/m², 350E acrylic
Liner	77 micron, 90g/m² white densified glassine, double side siliconized

Key features

- Polyolefin based synthetic paper is easy for printing with digital and traditional press printing methods
- Stiff and slightly conformable face film allows bubble free application of bigger size labels on curved surfaces
- 350E is solvent acrylic, premium, high performance, permanent adhesive. Designed for demanding applications on HSE and LSE substrates. 40g/m² coatweight allows application on slightly textured surfaces
- 90DWG heavy White Glassine paper, double side siliconised. Dedicated for roll to roll converting and printing. Very good for rotary die-cutting and automatic dispensing.

Performance characteristics
(average values)

Standard Peel Test Conditions are 23ºC and 50% Relative Humidity
180deg Peel Adhesion tested using FINAT Test Procedure FTM 1 (speed 300mm/min)

Standard conditions ageing (23ºC and 50%RH)

Adhesion to	Peel strength (N/25mm) after 72 hours
Stainless steel	19,9
ABS	20,1
Polycarbonate	18,4
Polypropylene	16,2

Environmental ageing (72 hours at 40ºC and 95%RH)

Adhesion to	Peel strength (N/25mm) after 24hours dwell at Standard Conditions
Stainless steel	22,9

Service temperature range
no changes observed after 72 hours ageing at indicated temperature
From - 40ºC to +120ºC

Processing	**Printing:** Facestock has a very good ink receptivity. It is suitable for digital printing methods (like thermal transfer, laser toner and ink jet) and traditional press printing methods like flexography. The compatibility of ink systems and printing methods should be verified by testing in the actual process. **Die Cutting:** ex. 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 15-25ºC and 40-60% relative humidity.
Shelf life	24 months from date of dispatch by 3M when stored in the original packaging at recommended conditions
Additional information	To request additional product information or to arrange for sales assistance, call local 3M representative. See address and contact details below.
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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