



High Performance Permanent Tackified Acrylic Adhesive P1400

Technical Data

May, 2006

Product Description

3M™ High Performance Permanent Tackified Acrylic Adhesive P1400 is formulated for use in demanding environments. This adhesive offers good UV resistance and excellent adhesion to a wide variety of substrates, including polyolefin.

Typical Physical Properties

Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

Adhesion properties determined per TLMI Method using 1.0 mil polyester with 1.0 mil of adhesive on a polished stainless steel panel.

Peel Adhesion	2.2 lbs./in. (528 N/m)	TLMI Method, 180° Peel, 12"/min., 1" wide sample
Loop Tack	1.8 lbs./in. (316 N/m)	TLMI Method, 12"/min., 1" wide sample
Shear	4 hours	TLMI Method, 0.25 in. ² x 500g
Application Temperature	40°F to 120°F (5°C to 49°C)	
Service Temperature*	-20°F to 302°F (-29°C to 150°C)	

*Actual service temperature is a function of the entire construction, including the facestock. Care should be taken to match facestock temperature limitations with the label application requirements.

Features

- Good UV resistance.
- Meets CONEG requirements.
- Adhesive dry ingredients are listed by FDA as indirect food contact additives when used in food packaging with minimum opportunity for exposure. See 21 CFR 175.105.
- UL recognized for indoor/outdoor use UL files MH11410 and MH16411. Refer to files for complete product construction details.

Application Ideas

- Durable Goods
- Power Tools
- Outdoor Overlaminates
- Equipment and Machinery
- Lawn and Garden

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Recommended Substrates

- Painted metal (except powder coats)
- Low Surface Energy Plastics
- Polystyrene and ABS
- Glass
- Aluminum
- Galvanized and Stainless Steel

Storage Conditions

Store under normal conditions of 70°F (21°C) and 50% relative humidity. To minimize the effects of humidity on the products, package the die-cut and printed stock in polyethylene bags. Low density polyethylene (2-4 mils) can help prevent humidity penetration.

Shelf Life

To obtain best performance, use this product within two years from the date of manufacture.

Product Use

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 of application.

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ISO 9001:2000

This Industrial Adhesives and Tapes Division product was manufactured under a 3M quality system registered to ISO 9001:2000 standards.



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