

March, 2008

3M™ Double Coated Tape 9740

Product Description

3M™ Double Coated Tape 9740 is a 3.5 mil double coated tape utilizing a 0.5 mil (12 microns) polyester film coated on both sides with 1.5 mils (38 microns) of a high shear acrylic adhesive system. This adhesive system allows for superior bonding and conformability to irregular as well as flat surfaces, and bonds well to most substrates including most low surface energy plastics. Performance grade splicing tape for corrugators and other high temperature splicing applications.



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Technical Information Note

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

Typical Physical Properties

Property	Values	
Color	Clear	
Total Tape Thickness without liner	0.088 mm	3.5 mil
Carrier Thickness	0.013 mm	0.5 mil
Adhesive	Acrylic	
Adhesive Carrier	Polyester	
Adhesive Thickness	0.038 mm	1.5 mil
Liner	55# DK	

Typical Performance Characteristics

Property	Values		Temp C	Temp F	Substrate	Backing	Notes	Test Condition
180° Peel Adhesion	8.2 N/cm	75 oz/in	23C	73F	Steel	2 mil Aluminum Foil	12 in/min (305 mm/min)	
Relative High Temperature Operating Ranges	219 °C	425 °F						Short Term (minutes, hours)

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Typical Performance Characteristics (continued)

Property	Values		Temp C	Temp F	Substrate	Backing	Notes	Test Condition
Minimum Continuous Temperature	-12 °C	10 °F						

Available Sizes

Please contact your 3M sales representative or customer service at 1-800-362-3550 for sizes and availability.

Handling/Application Information

Property	Values
Application Ideas	Designed where higher heat, shear and plasticizer resistance is required. For bonding irregular surfaces, bonding to plastics and metal extrusions, bonding of decorative trim. Also for high speed flying splices where heat resistance is required.
Application Equipment	For additional dispenser information, contact your local 3M sales representative, or the toll free 3M sales assistance number at 1-800-362-3550.

Application Techniques

Bond strength is dependent upon the amount of adhesive-to-surface contact developed. Firm application pressure helps develop better adhesive contact and improves bond strength.

To obtain optimum adhesion, the bonding surfaces must be clean, dry and well unified. Some typical surface cleaning solvents are isopropyl alcohol or heptane.*

Ideal tape application temperature range is 70°F to 100°F (21°C to 38°C). Initial tape application to surfaces at temperatures below 50°F (10°C) is not recommended because the adhesive becomes too firm to adhere readily. However, once properly applied, low temperature holding is generally satisfactory.

*Note: Carefully read and follow the manufacturer's precautions and directions for use when using solvents.

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Storage and Shelf Life

Store in original cartons at 70°F (21°C) and 50% relative humidity.
If stored under proper conditions, product retains its performance and properties for 24 months from date of manufacture.

Trademarks

3M is a trademark of 3M Company.

References

Property	Values
3m.com Product Page	https://www.3m.com/3M/en_US/company-us/all-3m-products/~ /3M-Double-Coated-Tape-9740?N=5002385+3293241667&rt=rud
Safety Data Sheet (SDS)	https://www.3m.com/3M/en_US/company-us/SDS-search/results/?gsaAction=msdsSRA&msdsLocale=en_US&co=ptn&q=9740

ISO Statement

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

Recognition/Certification

MSDS: 3M has not prepared an MSDS for this product which is not subject to the MSDS requirements of the Occupational Safety and Health Administration’s Hazard Communication Standard, 29 C.F.R. 1910.1200(b)(6)(v). When used under reasonable conditions or in accordance with the 3M directions for use, this product should not present a health and safety hazard. However, use or processing of this product in a manner not in accordance with the directions for use may affect its performance and present potential health and safety hazards.
TSCA: This product is not defined as an article under the Toxic Substances Control Act and therefore, it is exempt from inventory listing requirements.

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Information

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3M United States
3M Center
St. Paul, MN 55144-1000
800-362-3550
www.3M.com

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