

May, 2011

3M[™] Double Coated Tape 9828

Product Description

3M[™] Double Coated Tapes with 3M[™] Adhesive 340 provide a combination of high initial adhesion and good shear holding power to a wide variety of materials, including many plastics and foams. These tapes are available with a thin polyester film or a tissue for dimensional stability and improved handling.

Product Features

• 3M[™]Adhesive 340 is a medium-firm acrylic that provides a combination of high initial adhesion to a wide variety of materials, including many plastics.

• 3M™Double Coated Tape 9828 a film carrier, which can add dimensional stability to foams and other substrates. The carrier also provides easier handling during slitting and die-cutting.



3M[™] Double Coated Tape 9828

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		Notes
Total Tape Thickness without liner	0.084 mm	3.3 mil	
Faceside Adhesive Thickness	0.051 mm	2 mil	Faceside adhesive is on the interior of the roll, exposed when unwound and liner removed.
Backside Adhesive Thickness	0.038 mm	1.5 mil	Backside adhesive is on the exterior of the roll, exposed when liner is removed.
Carrier Thickness	0.013 mm	0.5 mil	
Faceside Adhesive Type	340		Faceside adhesive is on the interior of the roll, exposed when unwound and liner removed.
Backside Adhesive Type	340		Backside adhesive is on the exterior of the roll, exposed when liner is removed.
Adhesive Carrier	Clear PET (Polyester)		

Typical Performance Characteristics

Property	v Values		Test Condition	Method	Notes	Dwell/Cure Time	Substrate	Backing
Additiona Test notes	I Not recommende for high temperature high shear performance applications. For such applications please refer to the 3M™ Adhesive 350 and 300MP product families.	9						
Relative High Temperat Operating Ranges			Short Term (minutes, hours)					
Relative High Temperat Operating Ranges			Long Term (days, weeks)					
Static Shear	31 min		1000 g @ Room Temperature	ASTM D3654	0.5 in² sample size			
Static Shear	3 min		500 g @ 70°C (158°F)	ASTM D3654	0.5 in² sample size			

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Typical Performance Characteristics (continued)

Property	y Values		Test Condition	Method	Notes	Dwell/Cure Time	Substrate	Backing
180° Peel Adhesion	9.9 N/cm	91 oz/in		ASTM D3330		72 hr @ Room Temperature	Stainless Steel	Aluminum Foil

90° Peel Adhesion		Dwell/Cure Time	Substrate	Backing
5.7 N/cm	52 oz/in	72 hr @ Room Temperature	ABS	Aluminum Foil
3.5 N/cm	32 oz/in	72 hr @ Room Temperature	Polypropylene (PP)	Aluminum Foil
7.3 N/cm	67 oz/in	72 hr @ Room Temperature	Polycarbonate (PC)	Aluminum Foil
6.9 N/cm	63 oz/in	15 min @ Room Temperature	Stainless Steel	
8 N/cm	74 oz/in	72 hr @ Room Temperature	Stainless Steel	
10.2 N/cm	94 oz/in	Ultimate (72 hr, 158°F)	Stainless Steel	

Property: 90° Peel Adhesion Method: ASTM D3330

Available Sizes

Property	Values		Width
Maximum Length	329 m	360 yd	1/2 to 54 in widths
Normal Slitting Tolerance	±0.08 mm	±1/32 in	
Core Size (ID)	76.2 mm	3 in	

Handling/Application Information

Application Ideas

- General purpose foam lamination
- General purpose lamination for fabricated parts.

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

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.

Handling/Application Information (continued)

Application Equipment

To apply adhesives in a wide web format, lamination equipment is required to ensure acceptable quality. To learn more about working with pressure-sensitive adhesives please refer to technical bulletin, Lamination Techniques for Converters of Laminating Adhesives (70-0704-1430-8). For additional dispenser information, contact your local 3M sales representative, or the toll free 3M sales assistance number at 1-800-362-3550.

Storage and Shelf Life

It is best to use the rolls as soon as possible after receipt. Ideally, rolls should be laminated to the intended substrates as soon after receipt as possible. Store in original cartons at 70°F (21°C) and 50% relative humidity. When storing rolls, lay them flat in a horizontal position with release treated wafers between the rolls. 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-9828?N=5002385+3293242637&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=9828

Family Group

	9824	9828	9828HL	9828PC	9456
Total Tape Thickness without liner (mm)	0.058	0.084	0.084	0.084	0.11
Faceside Adhesive Thickness (mm)	0.032	0.051	0.051	0.051	0.051
Backside Adhesive Thickness (mm)	0.032	0.038	0.038	0.038	0.051
Carrier Thickness (mm)	0.013	0.013	0.013	0.013	
Faceside Adhesive Type	340	340	340	340	340
Backside Adhesive Type	340	340	340	340	340
Adhesive Carrier	Clear PET (Polyester)	Clear PET (Polyester)	Clear PET (Polyester)	Clear PET (Polyester)	Tissue

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 a MSDS for these products which are 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, these products should not present a health and safety hazard. However, use or processing of the products in a manner not in accordance with the directions for use may affect their performance and present potential health and safety hazards.

TSCA: These products are defined as articles under the Toxic Substances Control Act and therefore, are exempt from inventory listing requirements.

Information

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