3M Double Coated Tapes with Adhesive 340

9824 • 9828 • 9828HL • 9828PC • 9456

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Technical Data

May, 2011

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.

Construction

Product	Faceside ¹ Adhesive Type/ Thickness	Carrier Type/ Thickness	Backside ² Adhesive Type/ Thickness	Liner Color, Type Print	Liner Caliper	Total Tape Thickness (w/o liner)
3M™ Double Coated Tape 9824	340/ 0.0013" (0.032mm)	Clear PET ³ 0.0005" (0.013mm)	340/ 0.0013" (0.032mm)	White, 55# Densified Kraft	0.0032" (0.081mm)	0.0023" (0.058mm)
3M™ Double Coated Tape 9828	340/ 0.002" (0.051mm)	Clear PET 0.0005" (0.013mm)	340/ 0.0015" (0.038mm)	White, 55# Densified Kraft	0.0032" (0.081mm)	0.0033" (0.084mm)
3M™ Double Coated Tape 9828HL	340/ 0.002'' (0.051mm)	Clear PET 0.0005" (0.013mm)	340/ 0.0015" (0.038mm)	Natural, 132#, 12 point, Kraft	0.0115" (0.292mm)	0.0033" (0.084mm)
3M™ Double Coated Tape 9828PC	340/ 0.002" (0.051mm)	Clear PET 0.0005" (0.013mm)	340/ 0.0015" (0.038mm)	White, 74# Polycoated Kraft	0.0056" (0.142mm)	0.0033" (0.084mm)
3M™ Double Coated Tape 9456	340/ 0.002" (0.051mm)	Tissue	340/ 0.002" (0.051mm)	White, "3M" logo, 55# Densified Kraft	0.0032" (0.081mm)	0.0043" (0.11mm)

Note 1: Faceside adhesive is on the interior of the roll, exposed when unwound.

Note 2: Backside adhesive is on the exterior of the roll, exposed when liner is removed.

Note 3: PET (Polyester).

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Performance Characteristics	Product Number	3M™ Double Coated Tape 9824	3M™ Double Coated Tapes 9828, 9828HL, 9828PC	3M™ Double Coated Tape 9456
	Adhesion to stainless steel ASTM D3330 - 90 degree	Oz/in (N/100 mm)	Oz/in (N/100 mm)	Oz/in (N/100 mm)
	- 15 minutes RT	49 (53)	63 (69)	34 (37)
	- 72 hour RT	54 (57)	74 (80)	48 (52)
	- 72 hour 158°F	68 (74)	94 (102)	53 (58)
	ASTM D3330 - 180 degree, 2 mil aluminum foil			
	- 72 hour RT	67 (73)	91 (99)	97 (106)
	3) Adhesion to other surfaces* ASTM D3330 - 90 degree, 2 mil aluminum foil, 72 hour RT			
	ABS	49 (53)	52 (57)	46 (50)
	Polycarbonate	49 (53)	67 (73)	47 (51)
	Polypropylene	32 (35)	32 (35)	42 (46)
	Shear Strength - ASTM D3654 modified - (.5 inch ² sample size)			
	1000 grams at 72°F	142 min	31 min	>10,000 mir
	500 grams at 158°F	1800 min	3 min	>10,000 mir
	Relative High Temperature Operating Ranges			
	Long Term (days, weeks)	120°F	120°F	150°F
		150°F	150°F	180°F

Available Sizes	Roll length, width, slitting tolerance, core size		
	Maximum in: 1/2" to 54" widths	360 yds. (329 m)	
	Normal Slitting Tolerance	± 1/32 in. (0.08 mm)	
	Core Size (ID)	3.0 in. (76.2 mm)	

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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 Some typical surface cleaning solvents are isopropy				
	Note: Carefully read and follow the manufacturer's when working with solvents.	precautions and directions for use			
	Ideal tape application temperature range is 70°F to application to surfaces at temperatures below 50°F the adhesive becomes too firm to adhere readily. He temperature holding is generally satisfactory.	(10°C) is not recommended because			
General Information	 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 Tapes 9824, 9828, 9828HL and 9828PC have 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 9456 has a tissue carrier, which adds dimensional stability for handling, while still maintaining the flexibility of a free film adhesive. Tape 9828HL has a heavy 12 point liner. 				
	• Tape 9828PC has a 74# polycoated kraft liner for	moisture stability.			
Application Ideas	 Tapes 9824/9828/9828HL/9828PC General purpose foam lamination, General purpose lamination for fabricated parts. 	 Tape 9456 End Tabbing. Bonding fabric to rigid cardboard. Attaching foam to plastics. Closing CD chipboard mailers. 			
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 toll free 3M sales assistance number at 1-800-362-				

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Storage	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.	
Shelf Life	If stored under proper conditions, product retains its performance and properties for two years from date of manufacture.	
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	(ISO 9001:2008) This Industrial Adhesives and Tapes Division product was manufactured under a 3M quality system registered to ISO 9001:2008 standards.	
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Industrial Adhesives and Tapes Division **Converter Markets**

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