3M Double Coated Tapes with Adhesive 350 9500PC • 3028EK

Technical Data

September, 2004

Product Description

3MTM Double Coated Tapes 9500PC and 3028EK feature a thin polyester film for dimensional stability and improved handling with ease of die-cutting and laminating. The 3MTM Adhesive 350 is a medium-firm acrylic adhesive that provides a combination of high wet grab and initial adhesion and good shear holding power to a wide variety of materials, including many plastics.

Product Number	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 tape 9500PC	350/ 0.0023" (0.058mm)	Clear PET ³ 0.001" (0.025mm)	350/ 0.0023" (0.058mm)	Natural, Polycoated Kraft, no print	0.0045" (0.11mm)	0.0056" (0.14mm)
3M tape 3028EK	350/ 0.0023" (0.058mm)	Clear PET ³ 0.001" (0.025mm)	350/ 0.0023" (0.058mm)	White, Extensible Kraft, no print	0.0055" (0.14mm)	0.0056" (0.14mm)

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).

The caliper listed is based on a calculation from manufacturing controlled adhesive coat weights using a density of 1.012 g/cc.

3MTM **Double Coated Tapes with Adhesive 350** 9500PC • 3028EK

Typical Physical Properties and	Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.			
Performance	Product Number	3M™ Double Coated Tapes 9500PC, 3028EK		
Characteristics	Adhesion to stainless steel ASTM D3330 - 90 degree	Oz/in (N/100mm)		
	- 15 minute RT	71 (77)		
	- 72 hour RT	93 (101)		
	- 72 hour 158°F (70°C)	121 (132)		
	ASTM D3330 - 180 degree, 2 mil al foil	67		
	- 72 hour RT	140 (153)		
	3) Adhesion to other surfaces* ASTM D3330 - 90 degree, 2 mil al foil, 72 hour RT			
	ABS	74 (81)		
	Polycarbonate (PC)	60 (65)		
	Polypropylene (PP)	44 (48)		
	Polyester (PET)	77 (84)		
	High Density Polyethylene (HDPE)	33 (36)		
	Shear Strength - ASTM D3654 modified - (.5 inch ² sample size)			
	1000 grams at 72°F (22°C)	+ 10,000 min		
	500 grams at 158°F (70°C)	+ 10,000 min		
	Relative High Temperature Operating Ranges:			
	Long Term (days, weeks)	200°F (93°C)		
	Short Term (minutes, hours)	350°F (177°C)		

Available Sizes

Available Lengths (Subject to Minimum order requirements)	3M Tapes 9500PC, 3028EK
Standard	36 yd (33 m)
Maximum Length	
1/4" to 1/2"	144 yd (132 m)
1/2" to 48"	360 yd (329 m)
Available Widths	
Minimum	1/4" (6.35 mm)
Maximum	48" (1220 mm)
Normal Slitting Tolerance	± 1/32" (0.8 mm)
Core Size	3.0" (76.2 mm)

3M[™] Double Coated Tapes with Adhesive 350 9500PC • 3028EK

	 3MTM Adhesive 350 is a firm acrylic adhesive that provides very high adhesion to a wide variety of materials, excellent shear holding power, high temperature resistance and excellent UV resistance. 3MTM Double Coated Tape 9500PC has a moisture resistant liner which can withstand high humidity conditions with minimal cockling or wrinkling. These tapes have a film carrier, which can add dimensional stability to substrates. The carrier also provides easier handling during slitting and die-cutting. 3MTM Double Coated Tape 3028EK has an extensible kraft liner which facilitates narrow slitting. 			
Application Techniques		ount of adhesive-to-surface contact developed better adhesive contact and improves bond		
	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.			
		fully sulfitue tory.		
	*Note: Carefully read and follow the ma use when working with solvents.	anufacturer's precautions and directions for		
Application Ideas		anufacturer's precautions and directions for		
Application Ideas	use when working with solvents.	anufacturer's precautions and directions for		
Application Ideas	 use when working with solvents. 3M Tape 9500PC Dissimilar materials joining, such as metal to plastic. High performance joining and 	anufacturer's precautions and directions for		
Application Ideas	use when working with solvents. 3M Tape 9500PC • Dissimilar materials joining, such as metal to plastic.	 anufacturer's precautions and directions for 3M Tape 3028EK Dissimilar materials joining, such as metal to plastic. 		
Application Ideas Application Equipment	 use when working with solvents. 3M Tape 9500PC Dissimilar materials joining, such as metal to plastic. High performance joining and bonding. To apply adhesives in a wide web formate ensure acceptable quality. To learn more ensure acceptable quality. To learn more processes and the solvent of the so	 anufacturer's precautions and directions for 3M Tape 3028EK Dissimilar materials joining, such as metal to plastic. High performance joining and bonding Applications which use narrow slit, level wound roll. at, lamination equipment is required to e about working with pressure-sensitive tin, Lamination Techniques for Converters 		

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Storage	Store in original cartons at 70°F (21°C) and 50% relative humidity.		
Shelf Life	If stored under proper conditions, product retains its performance and properties for two years from date of manufacture.		
Certification/ Recognition	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, the 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.		
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.		
Warranty and Limited Remedy	Unless stated otherwise in 3M's product literature, packaging inserts or product packaging for individual products, 3M warrants that each 3M product meets the applicable specifications at the time 3M ships the product. Individual products may have additional or different warranties as stated on product literature, package inserts or product packages. 3M MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY IMPLIED WARRANTY ARISING OUT OF A COURSE OF DEALING, CUSTOM OR USAGE OF TRADE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's application. If the 3M product is defective within the warranty period, your exclusive remedy and 3M's and seller's sole obligation will be, at 3M's option, to replace the product or refund the purchase price.		
Limitation of Liability	Except where prohibited by law, 3M and seller will not be liable for any loss or damage arising from the 3M product, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted, including warranty, contract, negligence or strict liability.		
	This Industrial Adhesives and Tapes Division product was manufactured under a 3M quality system registered to ISO 9001:2000 standards.		



Industrial Business Converters Markets Industrial Adhesives and Tapes Division

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