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Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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3M Hot Melt Adhesive 3764 • 3748

Technical Data				July, 2016		
Product Description	3M TM Hot Melt Adhesives are 100% solids, thermoplastic resins that become fluid when heated and quickly wet the bonding surface. They cool, harden and reach bond strength in seconds, keeping production flowing by eliminating clamps, fixturing an drying, and saving time energy and space.					
	3M TM Hot Melt Adhesive 3764 and 3748 bond to a wide variety of substrates such as wood, plain and coated corrugated, fabrics and foams, plastics, and other lightweight materials.					
	3M [™] Hot Melt Adhesive 3764 3M [™] Hot Melt Adhesive 3748		Excellent general plastics bonder with low temperature flexibility. Designed especially for low surface energy plastics and coatings such as polyolefins. Good high temperature stability and therma shock resistance.			
Features	• 100% solids, no VOCs					
	• Easy to use					
	• Adhesive obtains strength in seconds					
Typical Physical	Designed for plastics and polyolefin bonding, including ABS, PVC, polycarbonate, polypropylene and polyethylene Note: The following technical information and data should be considered representative					
Properties			uld not be used for specification purposes. 3M TM Hot Melt Adhesive			
		3764		3748		
	Color (solid)	Clear		Off White		
	Density (g/cm ³)	0.95		0.93		
	Flashpoint (°F) ¹	514		536		
	(1) Cleveland Open Cup ASTM D92-72					
Directions for Use	 Surface Preparation: Surfaces must be clean, dry and dust free. Wipe with a solve such as isopropyl alcohol for plastic substrates to aid in removing oil and dirt.* *Note: When using solvents, extinguish all ignition sources, including pilot lights, and follow the manufacturer's precautions and directions for use. Application: 3MTM Hot Melt Adhesives are designed for application with a 3MTM H Melt Applicators. Read and follow the precautions and directions for use in the user's manual before operating the applicator. 3MTM Hot Melt Adhesives are applied at 350-385°F. Extruded bead sizes can be customized using 3MTM applicator tips. 					

3MTM Hot Melt Adhesive

Directions for Use (continued)	3. Coverage: 3M TM Hot Melt Adhesives yield approximately 430 linear feet per pound of adhesive when extruded as a 1/8" diameter semi-circular				
	4. Set time: After the bond is made, $3M^{TM}$ Hot Melt Adhesives immediately build streng and no clamping is necessary. Set will occur faster on cold or metallic substrates.				
Typical Application Properties	Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.				
		3MTM Hot Melt Adhesive			
		3764	3748		
	Application Temperature ¹	350-385°F/ 177-196°C	350-385°F/ 177-196°C		
	Viscosity (CPS) ²	6,000 @ 375°F	5,000 @ 375°F		
	Open Time (seconds) ³	40	45		
	Delivery Time (seconds) ⁴	55	65		
	Available sizes/forms	5/8"x8"Q 5/8"x2" TC 1"x3" PG 1/2"x12"AE 1/8" Bulk	5/8"x8"Q 5/8"x2" TC 1"x3" PG Bulk		
	 (1) Recommended application temperative viscosity, delivery rate and pot life. (2) Brookfield Thermocel Viscometer if (3) Open time is the maximum time be must be joined together. Data based on Higher environmental temperatures at (4) Extrusion time for one 1"x3" PG carefully and the second second	in Centipoise using a #27 Spind etween the application of the a on 1/8" semicircular bead on no nd/or larger beads will lengthe	Ile @ 10 RPM. dhesive and when the parts on-metallic substrates at 75°		

Typical Performance Properties

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

	3M TM Hot Melt Adhesive		
	3764	3748	
Heat Resistance ¹	140°F/ 60°C	175°F/ 79°C	
Ball & Ring Melt Point ²	190°F/ 88°C	292°F/ 144°C	
Shear Strength ³	390 psi	250 psi	
Peel Strength ⁴	14 pwi	18 pwi	
UL94 Listing	V2	V2	
FDA Indirect Food Contact ⁵	21 CFR 175.105	21 CFR 175.105	

(1) Highest temperature that the adhesive will support a 2 psi dead load.

(2) ASTM E28-67.

(3) Douglas Fir to Douglas Fir.

(4) Canvas to Douglas Fir.

(5) Permitted for indirect food contact subject to the limitations in applicable CFR section(s).

3М^{гм} Hot Melt Adhesive

3764 • 3748

Storage	Store product below 120°F (49°C). When stored at the recommended conditions, this product has a shelf life of 2 years after 3M ships the product to a customer or distributor.		
She lf Life			
Pre cautionary Information	Refer to Product Label and Material Safety Data Sheet for health and safety information before using this product. For additional health and safety information, call 1-800-364-3577 or (651) 737-6501		
Product Use	All statements, technical information and recommendations contained in this document are based upon tests or experience that 3M believes are reliable. How ever, many factors beyond 3Ms 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 know ledge 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 3Ms product literature, packaging inserts or product packaging for individual products, 3Mw arrants that each 3Mproduct 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. 3MMAKES 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 w arranty period, your exclusive remedy and 3Ms and seller's sole obligation will be, at 3Ms option, to replace the product or refund the purchase price.		
Limitation of Liability	Except w here prohibited by law, 3M and seller w ill not be liable for any loss or damage arising from the 3M product, w hether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted, including w arranty, 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.		

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