3M Specialty Label Material 7291

FOD# 0307

page 1 of 3

January 1, 1999

Supersedes February 2, 1998

Construction	Facestock	Adhesive	Liner		
	3.7 mils (94 microns)	0.9 mil (23 microns)	3.2 mils (80 microns)		
	White Smudge-Proof	AP-360 all-purpose acrylic	#50 densified kraft –		
	Kimdura™		easy release		
Features	• Multi-ply, biaxially-oriented white polypropylene facestock has a consistent caliper to help prevent registration problems on press.				
	• Smudgeproof Kimdura [™] is top coated for dot matrix, thermal transfer, and deposition.				
	• Polypropylene-based facestock has no plasticizers, so it resists shrinkage. Good weatherability and solvent resistance.				
	• AP-360 adhesive offers high initial tack and is designed for use on a wide variety of substrates including low surface energy (LSE) plastics.				
	• Film stiffness is well suited for high-speed dispensing.				
Application Ideas	• Ideal as a substitute for vinyl labels on rigid or semi-rigid containers.				
	• Drum labels.				
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.Adhesion: 180° Peel (ASTM 3330)				
Performance Characteristics					
			Conditioned for 3 days		
		Initial - 10 minute dwell	at room temperature		
	Surface	oz./in. N/100 mm	oz./in. <u>N/100 mm</u>		
	Stainless Steel	40 44	44 48		
	Polycarbonate	45 49	49 53		
	Polypropylene	43 47	44 48		
	Liner Release: 180° liner removal from facestock at room temperature				
	Rate of Removal	Grams/Inch Width			
	90 in./min. 200 in./min	8 12			
	300 III./IIIII).	13			

Technical Data

3M[™] Specialty Label Material 7291

Environmental Performance	Note: The following tests are intended as a guide to product performance. Application testing is recommended using actual substrates, expected dwell times, and actual conditioning for best determination of product suitability.			
	The properties defined are based on four hour immersions at room temperature, unless otherwise noted. Samples were applied to stainless steel 24 hours prior to immersions and were evaluated one hour after removal.			
	Chemical	Appearance		
	Isopropyl Alcohol	No change		
	Detergent	No change		
	Engine Oil at 250°F (121	°C) Very slight change, white to off-white		
	Water for 48 hours	No change		
	Temperature resistance:	250°F (121°C) for 24 hours: Slight color change, white to off-white. -40°F (-40°C) for 24 hours: No change 100°F (38°C) at 100% relative humidity for 24 hours: No change		
	Humidity resistance:			
	Shelf life:Two years from date of manufacture of material if proper at 72°F (22°C) and 50% relative humidity.			
Processing Special Considerations	 Printing: 3M 7291 is top coated for improved ink adhesion with thermal transfer, flexo, letterpress and screen printing processes. The following ribbons are recommended for thermal transfer printing of 3M 7291. Wax-based ribbons: Sony 4052TM Zebra 5030TM Hybrid ribbons: Sony TR 4080TM Zebra 5038TM Resin based: Sony TR 4041TM Astro-Med R-5TM Die-cutting: Rotary or flat-bed process.			
Special Considerations	• For maximum bond strength, surface should be clean and dry. A typical cleaning solvent is heptane or isopropyl alcohol. Consult the manufacturer's Material Safety Data Sheet for proper handling and storage of solvents.			
	• For best bonding conditions, application surface should be at room temperature or slightly higher. Low temperature surfaces, below 50°F (10°C), cause the adhesive to become so firm that it will not develop maximum contact with the substrate.			
	• Higher initial bonds are achieved through increased rub down pressure. Use maximum laminating pressure for best results.			

3M[™] Specialty Label Material 7291

Technical Information and Data	The technical information and data, recommendations, and other statements provided are based on tests or experience which 3M believes to be reliable, but the accuracy or completeness of such information is not guaranteed.	
Product Use	Please remember that many factors can affect the use and performance of a 3M product in a particular application. The materials to be bonded with the product, the surface preparation of those materials, the product selected for use, the conditions in which th product is used, and the time and environmental conditions in which the product is expected to perform are among the many factors that can affect the use and performance of a 3M product. Given the variety of factors that can affect the use and performance of a 3M product, some of which 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	The 3M product will be free from defects in material and manufacture for a period of one (1) year form the date of manufacture. 3M MAKES NO OTHER WARRANTIES OR CONDITIONS, 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 method of application. If the 3M product is defective within the warranty period stated above, your exclusive remedy and 3M's sole obligation shall be, at 3M's option, to replace or repair the 3M product or refund the purchase price of the 3M product.	
Limitation of Remedies and Liability	Except where prohibited by law, 3M will not be liable for any loss or damage arising form the 3M product, whether direct, indirect, special, incidental, or consequential, regardless of the legal theory asserted, including contract, warranty, negligence, or strict liability.	
	ISO 9002	
	This Industrial Tape and Specialties Division product was manufactured under a 3M quality system registered to ISO 9002 standards.	
	Some 4050, TR 4090, and TR 4041 are trademarks of Some Chamicals Corp. of America	

Sony 4050, TR 4080, and TR 4041 are trademarks of Sony Chemicals Corp. of America Zebra 5030 and 5038 are trademarks of Zebra Technologies Corp. Astromed R-5 is a trademark of Astro-Med Inc. Kimdura is a trademark of Kimberly Clark



Industrial Tape and Specialties Division

3M Center, Building 220-7W-03 St. Paul, MN 55144-1000 USA 1 800 362 3550 1 800 223 7427 Fax On Demand www.3M.com