3M Specialty Label Material 7291

FOD# 0307

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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 TM 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. 			
	Application Ideas	• Ideal as a substitute for vinyl labels on rigid or semi-rigid containers.		
• Drum labels.				
	• Drum labels.			
Properties and	Note: The following tech	nical information and data should should not be used for specificatio		
Typical Physical Properties and Performance Characteristics	Note: The following tech	should not be used for specificatio		
Properties and Performance	Note: The following tech or typical only and	should not be used for specificatio	on purposes.	
Properties and Performance	Note: The following tech or typical only and	should not be used for specificatio	on purposes.	
Properties and Performance	Note: The following tech or typical only and Adhesion: 180° Peel (AST Surface	should not be used for specificatio M 3330)	Conditioned for 3 days	
Properties and Performance	Note: The following tech or typical only and Adhesion: 180° Peel (AST Surface Stainless Steel	I should not be used for specificatio M 3330) Initial - 10 minute dwell	Conditioned for 3 day at room temperature	
Properties and Performance	Note: The following tech or typical only and Adhesion: 180° Peel (AST Surface Stainless Steel Polycarbonate	I should not be used for specificatio M 3330) Initial - 10 minute dwell <u>oz./in. N/100 mm</u>	Conditioned for 3 days at room temperature oz./in. <u>N/100 mm</u>	
Properties and Performance	Note: The following tech or typical only and Adhesion: 180° Peel (AST Surface Stainless Steel	$\begin{array}{c} \textbf{Ishould not be used for specification}\\ M 3330)\\ \hline \\ Initial - 10 minute dwell\\ \underline{oz./in.}\\ 40 \\ \hline \end{array} \\ \begin{array}{c} N/100 \text{ mm}\\ 44 \\ \end{array}$	Conditioned for 3 days at room temperature <u>oz./in.</u> <u>N/100 mm</u> 44 48	
Properties and Performance	Note: The following tech or typical only and Adhesion: 180° Peel (AST Stainless Steel Polycarbonate Polypropylene	$\begin{array}{c} \textbf{Ishould not be used for specification}\\ M 3330)\\ \hline \\ \textbf{Initial - 10 minute dwell}\\ \underline{\textbf{oz./in.}}\\ 40 \\ 45 \\ 49 \\ \end{array}$	Conditioned for 3 day at room temperature <u>oz./in.</u> <u>N/100 mm</u> 44 48 49 53 44 48	
Properties and Performance	Note: The following tech or typical only and Adhesion: 180° Peel (AST Stainless Steel Polycarbonate Polypropylene	A should not be used for specification M 3330) Initial - 10 minute dwell $\underline{oz./in.}$ N/100 mm 40 44 45 49 43 47	Conditioned for 3 day at room temperature <u>oz./in.</u> <u>N/100 mm</u> 44 48 49 53 44 48	
Properties and Performance	Note: The following tech or typical only and Adhesion: 180° Peel (AST Surface Stainless Steel Polycarbonate Polypropylene Liner Release: 180° liner r	I should not be used for specification M 3330) Initial - 10 minute dwell $\underbrace{\text{oz./in.}}_{40}$ $\underbrace{\text{N/100 mm}}_{44}$ 45 4943 $47removal from facestock at room temp$	Conditioned for 3 day at room temperature <u>oz./in.</u> <u>N/100 mm</u> 44 48 49 53 44 48	

Technical Data

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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.			
Processing	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 Detergent	No change		
		No change		
	Engine Oil at 250°F (121° Water for 48 hours	°C) Very slight change, white to off-white No change		
	Temperature resistance: Humidity 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 Two years from date of manufacture of material if properly stored at 72°F (22°C) and 50% relative humidity.		
				Shelf life:
	 Wax-based in Sony 4052^{TI} Zebra 5030^{TI} Hybrid ribbe Sony TR 40 Zebra 5038^{TI} Resin based Sony TR 40 Astro-Med I 			м гм ons: 80 ^{тм} гм : 41 ^{тм} R-5 ^{тм}
	• 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 $50^{\circ}F(10^{\circ}C)$, 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.				

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