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Technical Data Sheet 2 Mil Static Dissipative Polyimide – 720

General A 2 mil polyimide label stock with a permanent pressure sensitive acrylic adhesive and high opacity gloss white topcoat specially designed for thermal transfer printing.

Uses & The 720 is deemed to be Static Safe product in accordance with EIA 625, EIA 541 It is designed for bar code or alphanumeric identification of printed circuit boards or related electronic components. It is the ideal label to withstand surface mount board processes, on either the top or bottom side of the board. It can also be used on topside of board in mixing processes and is recommended for bottom side, which is directly exposed to the wave solder environment.

Properties: When printed with appropriate thermal transfer ribbon, the print resists smearing even after exposure to wave soldering. Also, preheating of printed label product can enhance its durability to extreme solvent and/or abrasion exposure. Moreover, When the label is peeled from its release liner, less then 25 volts per square inch of electrostatic charge is generate, making it safe to use in static free work environment per EIA 625, EIA 541.

Nortec 103, 140 or 148 Thermal Transfer Ribbons.

		USA Un	its (In)	SIL	Jnits (mi	m)		
Approx.	Face Film	0.0027		0.06	68			
Thickness:	Adhesive	0.0020		0.05	50			
	Total	0.0047		0.11	8			
Adhesion:	Test Method: AST	M D-333	0 (stainle	ess St	teel)			
			USA Ur	nits (c	oz/In)	SI Units	(N/100mm)	
	20 minute dwell		44		48			
	72 Hour Dwell		82			90		
	Tack (ASTM D29	979)	25 oz		710gr			
	,							
Heat/Chemical	Test Environment		PCS ²	Read ³	PCS after	R/R ⁴ after		
/Abrasion					Rate	Abrasion	Abrasion	
Resistance ¹	Control		99%	100%	99%	100%		
	260°C heat, 5 minutes			99%	100%	99%	100%	
	Kyzen Corp. Aquanox SSA 30%		1000/	000/	1000/	1000/		
	aqueous, 40-45°	queous, 40-45°C, 10 minutes ⁵			100%	99%	100%	100%
	RE-ENTRY. KNI 2000 Terpene, 40- 45°C, 10 minutes ⁵ Alpha Metals Inc. EC-7R Terpene,			000/	100%	0.00/	100%	
					90 /0	100%	50 /0	100 /8
				08%	100%	08%	100%	
	40-45°C, 10 min	ninutes nc. 2110 Saponifier 6%		30 %	100 /6	30 /0	100 /8	
	Alpha Metals Inc			97%	100%	07%	100%	
	aqueous, 65-70°C, 10 minutes			51 /8	100 /0	51 /0	100 /8	
	Isopropanol 99%	, 82°C, 1	0 minute	S	99%	100%	99%	100%
	Deionized Water	, 100°C 1	0 minute	es	99%	100%	99%	100%

¹ Samples printed with a recommended thermal transfer ribbon using standard TT printer. Labels printed with 3:1 ratio barcodes with 6 mil X dimension bars. Samples exposed to indicated environments. Abrasion Performance tested with 100 strokes of stainless steel ball (AISI302, 0.3125" diameter) with 300 gram load
² PCS - Print Contrast Signal. PCS determined with Quick Check 650, 0.005" aperture, 660 nm wavelength. Quick

- ³ Read rate determined using PSC 850 laser scanner
- ⁴ Read Rate

Recommended

Ribbons:

⁵ Followed by 2 minute immersion in demonized water at 100°C

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² PCS - Print Contrast Signal. PCS determined with Quick Check 650, 0.005" aperture, 660 nm wavelength. Quick Check 650 manufactured by Photographic Sciences Corp.



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Chemical Resistance1:	Test Method MIL-STD-202	F Notice	12 Method 215 J.			
	Test Fluid		Results			
	1 part IPA, 3 Parts Minera	l Spirits	No Visual Effect			
	1,1,1 - Trichloroethene		Solvent deleted per	Notice 12		
	Terpene Defluxer		No Visual Effect			
	Saponifier		No Visual Effect			
Electrical	Test Method		Label surface	Adhesive surfac	е	
Properties:	ESO/ESD S.11.11		1.0+E7 Ohms	1.0+E6 Ohms		
	Peel Value (EIA 625, EIA	541)		<25 Volts/Sq. In		
Temperature	Performance properties	Test Me	thod	Typical results		
performance:	Short Term High	2 minute	es at 572°F (300°C)	No visible effect to label		
	Service Temperature					
	Short Term High	1 minute	e at 662°F (350°C)	No visible effect t	o label	
	Service Temperature					
	Short Term High	10 seco	nds at 842°F (450°C)	No visible effect t	o label	
	Service Temperature					
Storage stability & Shelf life :	1 year below 80°F (27°C) a	and 60%	R.H.			
Agencies approvals:	MIL-STD-202F Notice 12 M	Method 21	15 J.			
Reference:	Aquanox SSA- [™] is a trademark of Kyzen Corporation. EC-7R [™] is a trademark of Petroferm Inc. Polyken [™] is a trademark of the Kendell Corporation. RE -ENTRY [™] is a registered trademark of Environsolv Inc. References: AISI: American Iron and Steel Institute (U.S.A.) ASTM: American Society for Testing and Materials (U.S.A.) PSTC: Pressure Sensitive Tape Council (U.S.A.) SI: International Systems of Units.					
General Note :	All values shown are averages and should not be used for specification purposes. Test data and test results contained in this document are for general information only and shall not be relied upon by NORTEC AMI customers for designs and specifications, or be relied on as meeting specified performance criteria. Customers desiring to develop specifications or performance criteria for specific product applications should contact NORTEC AMI for further information.					
Warranty:	NORTEC AMI Ltd. recommends that a selected label type be thoroughly tested to insure it meets all end user requirements. NORTEC AMI Ltd. warrants only the purchaser that its products are free from defects in material and workmanship. NORTEC AMI limits its obligation under this warranty and at its option to repair or replace the product. This warranty is in lieu of any other warranty, expressed or implied, including, but not limited to, any implied warranty of merchantability or fitness for a particular purpose. NORTEC AMI is not liable for any damages, including lost profits, lost savings, or other incidental or consequential damages arising out of the use of or inability to use such product.					

¹ Samples printed with a recommended thermal transfer ribbon using a standard Thermal Transfer Printer. Labels printed with alphanumeric and 3:1 ratio barcodes with 6 mil X dimension bars. Samples subjected to 3 cycles of three-minute immersions immediately followed by a toothbrush rub after each immersion.

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