## **3M<sup>™</sup> Pharmaceutical and Performance Paper Label Materials** 7002 • 7004

Typical Physical Properties and	<ul> <li>Note: The following technical information and data should be considered representative or typical only, and should not be used for specification purposes.</li> <li>Adhesion: 180° Peel, 12" /minute Dwell (ASTM D-3330, 305 mm/min), 1" wide sample, at 72°F (22°C) and 50% relative humidity. Values: oz./inch width.</li> </ul>			
Performance Characteristics				
	Surface	Initial 10 min dwell at room temperature	72 hours dwell at room temperature	
	3M 7002 and 7004 Stainless Steel	****Dolog	minatod****	
	Glass			
	Polypropylene	****Delaminated****		
	High-Density Polyethyl			
	*Note: The adhesion is higher than the strength of the paper, resulting in delamination.			
	Liner Release: Average 180° Removal from Facestock.			
	Product 7002	90"/minute Grams/1 Inch Width 10	300"/minute Grams/1 Inch Width 12	
	7004	13	15	
	Flag Resistance: 7002 has excellent flagging resistance in applications to curved surfaces, especially glass.			
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 the 180° peel, 12"/min (305 mm/min) 1" wide sample to a stainless steel substrate.			
	Water Immersion:	Delamination upon removal after	four hours at room temp.	
	Isopropyl Alcohol Immersion:	Delamination upon removal after four hours at room temp.		
	Detergent/Water Immersion:	Delamination upon removal after four hours at room temp.		
	Cold Temperature:	Significant success with freezing and refrigerating containers prior to labeling.		
	Temperature Range:	40°F (-40°C) to 250°F (121°C)		
	Sterilization Process:	resistance on small diameter gla	002 label stock is specifically designed for excellent flagging sistance on small diameter glass vials following autoclave, amma or ethylene oxide sterilization.	
	Humidity Resistance:	No change in appearance after 2	24 hours at 90°F (32°F) at 90% R.H.	
Shelf Life	Two years from date of manufacture of material if properly stored at 72°F (22°C) and 50% relative humidity.			

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Processing	Printing:	Facestock on 7002 and 7004 is thermal transfer printable using many wax ribbons. REfer to the technical processing guide and other publications such as "Tips on UV INk Processing" and "Splice Construction Recommendations".	
Special Considerations	Labels misaligned on glass containers should be removed with water at room temperature.		
	Silicone overspray/contamination of the substrate can cause poor adhesion.		
	products, pack polyethylene (	ions recommendation — To minimize the effects of humidity on the age the die-cut and printed stock in polyethylene bags. Low density 2-4 mils) can help prevent humidity penetration and stabilize the ent in the siliconized kraft liner.	
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