



Label Material 7924

Sheet Polyester Label Material

Product Data Sheet

Updated : May 2000
Supersedes : August 1999

Physical Properties

Not for specification purposes
(Calipers are nominal values)

Facestock	51 micron (2.0 thou) Bright Silver Polyester
Adhesive	20 micron (0.8 thou) #300 Acrylic
Liner	170 micron (6.7 thou), 147 g/m ² (90#) Polycoated Kraft
Shelf Life	24 months from date of manufacture of product when properly stored between 22°C and 50% relative humidity.

Features:

- #300 adhesive bonds well to a variety of substrates including metals, high surface energy (HSE) plastics, and low surface energy (LSE) plastics. It is ideal for applications requiring high initial adhesion to LSE plastic surfaces.
- 147 g/m² lay-flat polycoated kraft liner provides easy sheet processing..
- 3M™ Label Material 7924 is UL recognised (File MH11410)

Application Ideas:

- Property identification and asset labelling.
- Warning, instruction, and service labels for durable goods.
- Nameplates for durable goods.

Date : May 2000
Label Material 7924
Sheet Polyester Label Material

Performance Characteristics
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Surface	Initial (10 Minute Dwell/RT)			
	180° Peel		90° Peel	
	N/10mm	Oz/In	N/10mm	Oz/In
Stainless Steel	6.1	56	4.6	24
Polycarbonate	6.7	59	4.8	44
Polypropylene	5.8	53	4.2	38
Glass	6.6	60	4.6	42
HD Polyethylene	3.8	35	3.1	28
LD Polyethylene	3.5	32	2.7	25

Surface	Conditioned for 3 Days at Room Temperature 22°C			
	180° Peel		90° Peel	
	N/10mm	Oz/In	N/10mm	Oz/In
Stainless Steel	7.3	67	5.0	46
Polycarbonate	6.7	61	5.0	46
Polypropylene	6.1	56	4.2	38
Glass	7.8	71	5.2	48
HD Polyethylene	4.4	40	3.1	28
LD Polyethylene	4.6	42	3.7	34

Surface	Conditioned for 3 Days at 49°C			
	180° Peel		90° Peel	
	N/10mm	Oz/In	N/10mm	Oz/In
Stainless Steel	7.7	70	5.5	50
Polycarbonate	3.3	30	1.9	17
Polypropylene	5.9	54	4.6	42
Glass	7.7	70	5.5	50
HD Polyethylene	4.4	40	3.2	29
LD Polyethylene	1.0	9	1.1	10

Surface	Conditioned for 24 hours at 32°C At 90% Relative Humidity			
	180° Peel		90° Peel	
	N/10mm	Oz/In	N/10mm	Oz/In
Stainless Steel	7.4	68	5.8	53
Polycarbonate	6.0	55	3.9	36
Polypropylene	7.2	66	4.8	44
Glass	7.3	67	4.8	44
HD Polyethylene	4.9	45	3.5	32
LD Polyethylene	3.9	36	3.3	30

Date : May 2000
 Label Material 7924
 Sheet Polyester Label Material

Performance Characteristics Contd...
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	Liner Release		
	180° Removal of Liner from Facestock		
	Rate of Removal	N/10mm	Gms/25mm Width
	2.3 m / min	3.1	8
	7.6 m / min	3.5	9

Environmental Performance	The properties defined are based on four hour immersions at room temperature 22°C unless otherwise noted. Samples were applied to stainless steel panels 24 hours prior to immersion and were evaluated one hour after removal from the solution for peel adhesion. Adhesion measured at 180° peel angle (ASTM D3330) at 305 mm/min.			
Chemical Resistance	Adhesion to Stainless Steel		Appearance	Edge Penetration
Chemical	N/10mm	Oz/In	Visual	Millimetres
Isopropyl Alcohol	6.6	60	No change	0.8
Detergent (1% Alconox®*)	7.0	64	No change	0
Engine Oil (10W30) @ 250°F (121°C)	7.0	64	No change	1
Water for 48 hours	7.2	66	No change	0
pH 4	7.1	65	No change	0
PH10	7.0	64	No change	0
409 ³ * Cleaning solution	7.0	64	No change	0
Toluene	3.6	33	Topcoat damaged	6.5
Acetone	5.1	47	Topcoat damaged or gone	4.32
Brake Fluid	8.1	74	No change	0
Gasoline	3.9	36	No change	5.8
Diesel Fuel	6.8	62	No change	1
Mineral Spirits	5.9	54	No change	2.4
Hydraulic Fluid	7.2	66	No change	0

Date : May 2000
 Label Material 7924
 Sheet Polyester Label Material

Temperature Resistance	149°C for 24 hours:	no significant visual change
	-40°C for 3 days:	no significant visual change
Humidity Resistance	24 hours at 38°C and 100% relative humidity	No significant changes in appearance or adhesion

Accelerated Ageing ASTM D3611 : 96 hours at 65°C & 80% relative humidity			
	Rate of Removal	N/10mm	Grams / Inch Width
180° Peel Adhesion from Stainless Steel	305 mm / min	5.4	49

Processing

Printing:

Material has a topcoating which is receptive to many inks including UV and conventional ink systems. The converter should verify that their ink systems are compatible with the topcoating on the polyester film by testing beforehand. The topcoating is also receptive to other forms of printing including hot stamping and thermal transfer printing. The converter should verify that the method of printing is compatible with the topcoating by testing beforehand.

Die Cutting:

Die cut with steel rule or flatbed dies. The 127 g/m² lay-flat also allows kiss cutting and back splitting. The converter can cut through the polyester facestock without cutting through the liner. Sheetable label materials are not recommended for rotary die cutting and stripping operations.

Packaging:

Finished labels should be stored in plastic bags.

Special Considerations

For maximum bond strength, the surface should be clean and dry. Typical cleaning solvents are heptane and isopropyl alcohol**.

NOTE: When using solvents, read and follow the manufacturer's precautions and directions for use.

For best bonding conditions, application surface should be at room temperature or higher. Low temperature surfaces, below 10°C can cause the adhesive to become so firm that it will not develop maximum contact with the substrate. Higher initial bonds can be achieved through increased rubdown pressure.

Values presented have been determined by standard test methods and are average values not to be used for specification purposes. Our recommendations on the use of our products are based on tests believed to be reliable but we would ask that you conduct your own tests to determine their suitability for your applications. This is because 3M cannot accept any responsibility or liability direct or consequential for loss or damage caused as a result of our recommendations.

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