

Material Specification Sheet

Product:
M-677

Description:

The M-677 is a durable, high performance, clear material that offers excellent thermal stability, abrasion and moisture resistance. This polyester label utilizes a high performance, tackified acrylic designed for use in demanding environments.

Recommended Applications:

This label is recommended as an overlamine for durable goods, power tools, equipment and machinery, lawn and garden. For maximum bond strength, the surface should be clean and dry. A typical cleaning solvent is heptane or isopropyl alcohol, consult manufacturer of these solvents for handling and storage parameters, For best conditions, application surface should be room temperature or higher. Temperatures below 10° F (-12°C) can cause the adhesion to become so firm that it will not develop contact with the substrate. Higher initial bonds are achieved through increased rub down pressure.

Facestock:

	<u>Value</u>	<u>Units</u>	<u>Test Method</u>
Caliper:	0.001	in.	Clear Polyester NTC

Adhesive:

The M-677 has a tackified, permanent, acrylic adhesive. It offers exceptional adhesive smoothness and clarity for superior adhesive "wet-out"

	<u>Value</u>	<u>Units</u>	<u>Test method</u>
Peel Adhesion	2.2 (528)	lbs/in (N/m)	TLMI- 180°, 12"/min, 1" wide sample
Loop Track	1.8 (316)	lbs/in (N/m)	TLMI- 12"/min, 1" wide sample
Adhesive Coat Weight	1.40 to 1.71	g/100 in ²	TM- 2279
Shear	4	hours	TLMI- 0.25 in ² x 500g
Release Range	10 to 30	g/2 in	TLMI 180° removal, 300 in/min
Service Temperature	-20 to 257 (-29 to 125)	°F (°C)	
Application Temperature	40 to 120 (5 to 49)	°F (°C)	

Convertibility: This tackified, permanent, acrylic adhesive is specifically designed to be compatible with a variety of print methods and end use applications. Adhesive processing issues are not anticipated when proper roll tensions, handling and storage conditions are used.

Liner:

The M-677 has a clear polyester liner.

	<u>Value</u>	<u>Units</u>
Caliper:	0.001	in.

Shelf Life:

If the M-677 is stored under proper conditions it has the potential to retain its performance and properties for two years from the date of manufacture.

Printing:

This film is not treated for printability

Storage:

Store at room temperature conditions of 72°F (22°C) and 50% relative humidity. All unconverted and converted label materials should be stored in polyethylene protections to minimize the effects of the humidity penetration.

Product use:

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