

DTM9902TR

Revised 03/2023 LEL

Face Description

A **medium sensitivity** bright white direct thermal paper top-coated for optimum environmental resistance. Optimal wavelength range under 660nm.

Test Property	Typical Values	Test Method
Basis Weight 25x 38 sheets	45.5# Avg.	TAPPI T-410
Caliper, inches	0.00295 +/- 10%	TAPPI T-411
Tear, grams	45 MD 40 CD	TAPPI-414
Tensile, lbs/in	29 MD 15 CD	TAPPI-494
Brightness %	89% Avg.	TAPPI T-525
Image Color	Black	
Initial Activation Temp (O.D.=0.2)		192 ± 9°F (89 ± 5°C)
Effective Activation Temp (O.D.=0.8)		221 ± 9°F (105 ± 5°C)
Optimum Activation Temp (O.D.=1.4)		225± 9°F (107 ± 5°C)
Resistance to Heat & Humidity		Outstanding
Resistance to Oils, Fats, Blood, Plasticizers		Excellent
15 Hour Water Immersion		Excellent

Adhesive Description XT-99 Special Tight Release Version

A high tack permanent acrylic emulsion with excellent ultimate adhesion and mandrel hold for medical vial labeling. Very good adhesion to corrugated, glass, and various plastic substrates. Considered to be latex glove friendly for use in some healthcare applications. Complies with FDA 21 CFR 175.105

Test Property	Typical Values	Test Method
Caliper, inches	0.0007 +/- 10%	
Min Application	25°F (-4°C)	
Service range	-75 to 200°F (-60°C to 93°C)	
Average Peel Adhesion Stainless Steel 30 minutes applied/90° angle	2.4/lbs/inch	PSTC-101/Method F MACTac CTM54
Loop Tack g/1"	3.9 lbs/sq. inch	PSTC-16/Method A MACTac CTM25

When comparing values, keep in mind, other suppliers may use different testing methods.

Liner Description

A semi-bleached, super calendared kraft liner excellent for die cutting and stripping. The liner release system is designed specifically for label dispensing. Primarily for roll-to-roll applications.

Test Property	Typical Values	Test Method
Caliper	0.0024 +/- 10%	TAPPI T411
Basis Weight	40 +/- 10%	TAPPI T410

Applications

Used for barcode and human readable labels in retail, healthcare and industrial markets. Recommended for use in **standard speed** thermal printers.

Shelf Life

One year when stored at 72°F and 50% RH. For more about Direct Thermal Storage, see the Technical Bulletin for Direct Thermal Storage at www.mactac.com.

Note: The user is responsible for determining the product's suitability for all aspects of the application. If there are any questions about applications, regulatory compliances, please contact your MACTac sales representative to discuss your requirements for recommendations. If this is a printed Performance Guide, it is an uncontrolled document. Please check the MACTac website for the latest, most up-to-date version at www.mactac.com

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