



PERFORMANCE GUIDE

Represents Typical Values Only

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DTM9902TR

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FSC® Topcoated Direct Thermal XT99 Tight Release 2.4 SCK

Face Description

A **medium sensitivity** bright white direct thermal paper top-coated for optimum environmental resistance. Optimal wavelength range under 660nm. FSC Certified. Certificate Number: SCS-COC-007635

| 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

CALL 1-800-548-3456 for additional product information

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