



PERFORMANCE GUIDE

Represents Typical Values Only

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DTR9902

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FSC® IR Topcoated DT XT99 2.4 SCK

Face Description

A **high sensitivity** top-coated IR scannable direct thermal paper suitable for barcode scanning wavelength ranges from **700 nm to 1000 nm**. Also scans as low as 633 nm. FSC Certified. Certificate Number: SCS-COC-007635

Test Property	Typical Values	Test Method
Basis Weight 17 x 22 sheets	19# Avg.	TAPPI T-410
Caliper, inches	0.00295 +/- 10%	TAPPI T-411
Tear, grams	35 MD 44 CD	TAPPI-414
Tensile, lbs/in	29 MD 15 CD	TAPPI-494
Brightness %	90%	TAPPI T-525
Image Color	Black	
Initial Activation Temp (O.D.=0.2)		167 ± 9°F (75 ± 5 °C)
Effective Activation Temp (O.D.=0.8)		181 ± 9°F (83 ± 5 °C)
Optimum Activation Temp (O.D.=1.2)		183± 9°F (84 ± 5 °C)

Adhesive Description XT-99

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.

Test Property	Typical Values	Test Method
Caliper, inches	0.0009 +/- 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 in a variety of barcode and human readable applications scanning at **I.R.** ranges between **700 nm** and **1000 nm** typically required in medical applications and where contamination is possible.

Shelf Life

One year when stored at 72°F and 50% RH. **Full IR sheets need to be protected from UV light. It is important to store IR sheets in opaque packaging and keep out of direct UV light.** 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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