

TCDT5102NB- DT Med sensitivity/HR51/2.4 SCK no added Bisphenols Rev 09/2025

Face Description

A **medium sensitivity** bright white direct thermal paper top coated for optimum environmental resistance. Optimal wavelength range under 660nm. No added Bisphenols

Test Property	Typical Values	Test Method
Basis Weight 17x22 sheets-500 lbs	20.5 lbs +/- 1	TAPPI T-410
Caliper, inches	0.00315 +/- 10%	TAPPI T-411
Tear, grams	50 MD 50 CD	TAPPI-414
Tensile, lbs./in.	35 MD 17 CD	TAPPI-494
Brightness %	92.5% Avg.	TAPPI T-452
PPS s-10	1.7	TAPPI T-538
Image Color		Black
Initial Activation Temp (O.D.=0.2)		190 ± 9°F (88 ± 5°C)
Effective Activation Temp (O.D.=1.0)		223 ± 9°F (106 ± 5°C)
Optimum Activation Temp (O.D.=1.4)		270± 9°F (132 ± 5°C)

Adhesive Description HR-51

A general-purpose acrylic emulsion removable adhesive designed for most temporary labeling applications. Always pretest removable adhesive for suitability in each particular end-use application. Test extensively on corrugate substrates. NOT RECOMMENDED FOR MANDREL APPLICATIONS.

Test Property	Typical Values	Test Method
Caliper, inches	0.0007 +/- 10%	
Min Application	32°F (0°C)	
Service range	-40 to 200°F (-40°C to 93°C)	
Average Peel Adhesion Stainless Steel 30 minutes applied/90° angle	.8/lbs/inch	PSTC-101F (30 min. applied)
Loop Tack g/1"	1.2 lbs/sq. inch	PSTC-16

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 and industrial markets where removable labels are required. 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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