



# PERFORMANCE GUIDE

Represents Typical Values Only

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## DNR9502

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### Face Description

A **medium sensitivity** topcoated direct thermal paper suitable for barcode scanning wavelength ranges from **visible (633nm) to near IR (675nm) wavelength**. 90%+ PCS at 675mn

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	44 MD 35 CD	TAPPI-414
Tensile, lbs/in	29 MD 15 CD	TAPPI-494
Brightness %	89%	TAPPI T-525
Image Color	Black	
Initial Activation Temp (O.D.=0.2)		198 ± 9°F (92 ± 5 °C)
Effective Activation Temp (O.D.=0.8)		226 ± 9°F (108 ± 5°C)
Optimum Activation Temp (O.D.=1.2)		233± 9°F (112 ± 5 °C)

### Adhesive Description ST-95

ST95 is a permanent acrylic emulsion with aggressive initial tack, excellent ultimate adhesion and mandrel hold. 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	0.0007 +/- 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	1.9/lbs/inch	PSTC-101/Method F MACTac CTM54
Loop Tack g/1"	3.6 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 near I.R. (675 nm) and visible (633 nm) wavelength ranges that is typical in the small package delivery industry. 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](http://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](http://www.mactac.com)

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

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