



# PERFORMANCE GUIDE

Represents Typical Values Only

www.MACTac.com

**DLTL2652-7**

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**FSC® Optimal Performance DT 640AT Bloom® hi.impact (No added Bisphenols)**

## Face Description

A **medium sensitivity** optimal performance specially engineered non-topcoated direct thermal paper with No Added Bisphenols designed for applications such as logistics, deli weigh scale, and general applications. This product has good environmental resistance to heat and humidity, plasticizer resistance along with superior resistance to fading and scuffing. Product designed for high reliability barcode scan at visible light (633nm) wavelengths. FSC Certified. Certificate Number: SCS-COC-007635

Test Property	Typical Values	Test Method
Basis Weight 17 x 22 sheets	18.9 # Avg	ISO536
Caliper, inches	0.00311 +/- 10%	ISO534
Tear, grams	31.6 MD 32.6 CD	ISO1924-3
Tensile, lbs/in	21.1MD 12 CD	ISO1924-3
Brightness %	85% Avg.	ISO2470
Image Color	Black	
Initial Activation Temp (O.D.=0.2)		178 ± 9°F (81 ± 5°C)
Effective Activation Temp (O.D.=0.8)		194 ± 9°F (90 ± 5°C)
Optimum Activation Temp (O.D.=1.0)		214 ± 9°F (101 ± 5°C)

## Adhesive Description 640AT

An all temperature acrylic adhesive that performs well in normal to freezer temperature applications. 640AT exhibits open time on some substrates (please test) and develops a permanent bond to a wide variety of substrates.

Test Property	Typical Values	Test Method
Caliper, inches	0.0007 +/- 10%	
Min Application	-20°F (-29°C)	
Service range	-65 to 200°F (-54°C to 93°C)	
Average Peel Adhesion Stainless Steel 30 minutes applied/90° angle	1.8/lbs/inch	PSTC-101/Method F MACTac CTM54
Loop Tack g/1"	2.4 lbs/sq. inch	PSTC-16/Method A MACTac CTM25

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

## Liner Description

**Bloom® hi.impact™** 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	0.0016 +/- 10%	TAPPI T411
Basis Weight	27.7 +/- 10%	TAPPI T410

## Applications

A flexible product used for high reliability barcode scanning and human readable labels for short term Logistics applications, deli weigh scale and retail with a cold temperature performing adhesive. 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).

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



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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)

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