

DIRECT THERMAL PAPER TECHNICAL DATA SHEET*



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49701NB ScanTherm Ultra / Frostbite / 40# Liner

Description

Product

Face: ScanTherm Ultra

Total Construction

Caliper (Approx): **6.15** mils

Adhesive: Frostbite

Liner: 2.5 Mil SCK Liner

Face A standard sensitivity, ultra-low abrasion, general purpose direct thermal paper designed to cover a broad range of applications, including industrial and weigh scale applications. It is top-coated for resistance to water, oil, and other chemicals and offers good heat and light resistance. No Added Bisphenols.

Physical Properties	Typical Value	Test Method
Caliper	0.00315	TAPPI T-411
Tensile, lbs/in (YIELD)	35 MD 17 CD	TAPPI T-414
Tear	50 MD 40 CD	TAPPI T-494
Brightness	92.5%	TAPPI T-425
Basis Weight 25" x 38"/500	20.5 lbs. +/- 10%	TAPPI T-425
Initial Activation Temp (O.D.=0.2)		190 ± 9°F (88 ± 5°C)
Effective Activation Temp (O.D.=0.8)		223 ± 9°F (106 ± 5°C)
Optimum Activation Temp (O.D.=1.55)		270 ± 9°F (132 ± 5°C)

Adhesive

A highly aggressive rubber based adhesive featuring excellent initial tack and ultimate adhesion when applied at freezer conditions. Also an excellent choice when applied to packaging materials at room temperature and then subjected to -40F blast freezing conditions. It will adhere to variety of surfaces despite specific amounts of frost and /or moisture (testing is recommended). When used in warm environments (above room temperature) you will experience ooze and have converting issues.

Physical Properties	Typical Value	Test Method
90° Peel Adhesion, lbs./in.		
Stainless Steel	1.62 lbs / in	PSTC-101F (30 min. applied)
Corrugate	lbs / in	PSTC-101F (30 min. applied)
Loop Tack		
Stainless Steel	3.31 lbs / in	PSTC-16A
Corrugate	lbs / in	PSTC-16A
Temperature Ranges		
Minimum Application Temperature	-15°F	
Service Temperature	-65°F - 160°C	

Disclaimer: Tested with 60# Semi-gloss paper properties at room temperature on standard lab panels. The service temperature listed is subject to limitations of the facestock and substrate used.

Liner A bleached, calendered liner featuring excellent die cutting and stripping characteristics. Recommended for use in roll-to-roll applications.

Physical Properties	Typical Value	Test Method
Caliper, inches	0.0025 +/- 10%	TAPPI T-411
Basis Weight 24"x36"/500	41.0 lbs. +/- 10%	TAPPI T-410

Shelf Life One year from the date of shipment, when stored at 72°F and 50% relative humidity.

*This document represents typical values and is not considered a specification.

The user is responsible for determining the product's suitability for all aspects of the application. If there are any questions about applications, or regulatory compliances please contact your Mactac sales representative to discuss your requirements for recommendations. If this is a printed Technical Data Sheet, it is an uncontrolled document. Please check the Mactac website for the latest, most-up-to-date version. The products discussed herein are sold without any warranty as to merchantability or any other warranty, expressed or implied.

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