



PERFORMANCE GUIDE

Represents Typical Values Only

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DSS4501 Durascan® S Thermal Transfer Film

Revised: 06/2017 KSM

Description	Applications and End Uses			
Product	DSS4501 is a 3.2 mil thermal transfer printable coated white biaxially oriented polyethylene with a high tack permanent rubber-based adhesive and a 2.4 semi-bleached super calendared kraft liner. BS5609 Certified.	Thermal transfer and prime labels requiring durability and an aggressive adhesive. Applications and markets include food, beverage, shipping, drum labels, piping, lumber, appliances, carpet backing, pallets.		
Face	A high-density polyethylene film, clay coated to provide an excellent thermal transfer printing surface.			
	Physical Properties Without Adhesive			
	Caliper, inches	0.0032 (3.2 mils)	ASTM D-2103	
	Tensile, ppiw	23 MD 22 CD	ASTM D-638	
	Basis Weight, lbs. (25" x 38"/500 sheets)	44 +/- 10%	TAPPI T-410	
Adhesive	705VHP is a high-tack rubber-based permanent adhesive formulated to provide excellent adhesion to many difficult substrates. The heavier coat weight of adhesive allows for good flow characteristics which permit adhesion to most rough textured surfaces.			
	Physical Properties of Adhesive			
	Thickness, inches	0.0014 +/- 10%		
	180°Peel Adhesion, lbs./in.	HDPE: 3.7 Stainless Steel: 5.4	PSTC-2 (30 min. applied) PSTC-2 (30 min. applied)	
	Loop Tack (1"), lbs./in.	HDPE: 3.5 Wood: 0.9	CTM-25 CTM-25	
	Temperature Ranges			
	Minimum Application	+20°F (-7°C)	CTM #45 Curwood	
	Service Ranges	-65°F to +160°F (-54°C to +71°C)	Polyester Film Dry Surface	
Liner	A semi-bleached super calendared kraft liner excellent for die cutting, stripping and label dispensing. Primarily for roll -to -roll applications.			
	Caliper, inches	0.0024 +/- 10%	TAPPI T-411	
	Basis Weight, lbs. (24" x 36"/500 sheets)	40 +/- 10%	TAPPI T-410	
Shelf Life	One year when stored at 72° F and 50% R.H.			

Durascan is a registered trademark of the Morgan Adhesives Company

The user is responsible for determining the product's suitability for all aspects of the application. If there are any questions about applications, 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.

*** NOTE: Thermal transfer printing quality and bar code scannability are dependent upon the interworking of several elements; the ribbon, the printhead and the facestock. Please test all applications. Consult MACTac's Technical Marketing Department for guidelines regarding printer and ribbon compatibility.**

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

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