



PERFORMANCE GUIDE

Represents Typical Values Only

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VDG9511

Revised: 06/2019 CNS

3.4 mil Topcoated White Vinyl / ST95 / 3.2 mil SCK

Description	Applications and End Uses																										
<p>Product VDG9511 is a 3.4 mil white topcoated flexible vinyl with a permanent adhesive with a 3.2 kraft liner. This product is ideal for outdoor promotional needs.</p> <p><i>BS 5609 Compliant. This product conforms to BS 5609: 1986 Section 2 – ‘Marine and Laboratory Performance of Label Base Materials’.</i></p>	<p>Vinyl construction for label applications requiring outdoor durability. Excellent flexo and thermal transfer printability with most resin and wax/resin ribbons.</p>																										
<p>Face The face film is a top coated white, flexible PVC film, polymerically plasticized for minimal shrinkage and dimensional stability. It can be used indoors and outdoors as a primary label, and works applications requiring wall-to-wall squeezability. The top coating on this product is designed for flexographic, thermal transfer and offset printing.</p> <p>Physical Properties Without Adhesive</p> <table border="1"> <tr><td>Caliper, in</td><td>0.0034</td><td>ASTM D2103</td></tr> <tr><td>Tensile at Yield (MD/CD)</td><td>11.6/10.5 PPIW</td><td>ASTM D882</td></tr> <tr><td>Tensile at Break (MD/CD)</td><td>13.0/12.0 PPIW</td><td>ASTM D882</td></tr> <tr><td>Elongation at Yield</td><td>8.1/7.5%</td><td>ASTM D882</td></tr> <tr><td>Elongation at Break (MD/CD)</td><td>98/250%</td><td>ASTM D882</td></tr> <tr><td>1% Secant Modulus (MD/CD)</td><td>52,070/52,070 PSI</td><td>ASTM D882</td></tr> <tr><td>Tear Strength (MD/CD)</td><td>73/89 grams</td><td>ASTM D1922</td></tr> <tr><td>Opacity</td><td>93.6</td><td>ASTM D1746</td></tr> </table>	Caliper, in	0.0034	ASTM D2103	Tensile at Yield (MD/CD)	11.6/10.5 PPIW	ASTM D882	Tensile at Break (MD/CD)	13.0/12.0 PPIW	ASTM D882	Elongation at Yield	8.1/7.5%	ASTM D882	Elongation at Break (MD/CD)	98/250%	ASTM D882	1% Secant Modulus (MD/CD)	52,070/52,070 PSI	ASTM D882	Tear Strength (MD/CD)	73/89 grams	ASTM D1922	Opacity	93.6	ASTM D1746			
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<p>Adhesive ST95 is a general-purpose permanent acrylic emulsion with aggressive initial tack, excellent ultimate adhesion and mandrel hold. Very good adhesion to corrugated, glass, and various plastic substrates. Also used in healthcare applications and considered to be latex glove friendly.</p> <p>Physical Properties of Adhesive</p> <table border="1"> <tr><td>Thickness, inches</td><td>0.0007 +/- 10%</td><td></td></tr> <tr><td>Peel Adhesion, lbs./in.</td><td>2.6</td><td>PSTC-101A (30 min. applied)</td></tr> <tr><td>Temperature Ranges</td><td></td><td></td></tr> <tr><td>Minimum Application</td><td>+25°F (-4°C)</td><td>CTM #45 Curwood</td></tr> <tr><td>Service Ranges</td><td>-75°F to +200°F (-59°C to +93°C)</td><td>Polyester Film Dry Surface</td></tr> </table>	Thickness, inches	0.0007 +/- 10%		Peel Adhesion, lbs./in.	2.6	PSTC-101A (30 min. applied)	Temperature Ranges			Minimum Application	+25°F (-4°C)	CTM #45 Curwood	Service Ranges	-75°F to +200°F (-59°C to +93°C)	Polyester Film Dry Surface												
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<p>Liner A semi-bleached kraft liner excellent for die cutting, stripping and label dispensing. Primarily for roll -to -roll applications where a more demanding may be needed.</p> <table border="1"> <tr><td>Caliper, inches</td><td>0.0032 +/- 10%</td><td>TAPPI T-411</td></tr> <tr><td>Basis Weight, lbs. (24" x 36"/500 sheets)</td><td>50 +/- 10%</td><td>TAPPI T-410</td></tr> </table>	Caliper, inches	0.0032 +/- 10%	TAPPI T-411	Basis Weight, lbs. (24" x 36"/500 sheets)	50 +/- 10%	TAPPI T-410																					
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<p>Durability The outdoor durability of the unprinted film is 5 years. Warranted life is based on vertical applications in central USA. Areas with greater weather extremes such as southwestern USA, Mexico and other similar areas in the tropics, sub-tropics or areas with high pollution levels cannot be expected to have the same durability. Therefore, durability in these areas will be 50% or 2.5 years, of this warranty statement.</p>																											
<p>Shelf Life Product retains its performance and properties for two years from date of manufacture when stored at 72° F and 50% relative humidity.</p>																											

Note: 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 Performance Guide, it is an uncontrolled document. Please check the MACTac website for the latest, most up-to-date version at www.mactac.com

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

IMPORTANT NOTICE: The information given and recommendations made herein are based on our research and are believed to be accurate. In every case, user shall determine before using any product in full scale production, whether such product is suitable for their particular purpose under their own operating conditions. User assumes all risk and liability whatsoever in connection with their use of any product. The products discussed herein are sold without any warranty as to merchantability or any other warranty, expressed or implied. No representative of ours has any authority to waive or change the foregoing provisions unless in a specific agreement signed by the officers of seller and manufacturer. Ultimately, sellers and manufacturers only obligation shall be to replace or credit such quantity of the product proved to be defective at its discretion.

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