



PERFORMANCE GUIDE

Represents Typical Values Only

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GF9002-78 Vivid™ 3 Clear Polystyrene

Revised: 06/2019 KSM

Description	Applications and End Uses																												
Product	<p>GF9002-78 is a 2.0 mil clear polystyrene film with a quick tack permanent adhesive and a 2.4 mil semi-bleached super calendared kraft liner. The entire construction converts and prints on wider webs and higher-speeds than typical rubber based adhesive coated papers.</p> <p>General-purpose clear film applications. Converts and dispenses easily. Ideal base stock for coupon labels.</p>																												
Face	<p>Optically clear high gloss polystyrene is corona treated for printing. Designed for indoor use as a coupon base and as a primary label in non-conformable applications. Smooth containers should be used in labeling applications to avoid air bubble entrapment with automatic dispensing.</p> <p>Physical Properties Without Adhesive</p> <table border="1"> <tr> <td>Caliper</td> <td>2.0 mils</td> <td>ASTM D2103</td> </tr> <tr> <td>Tensile at Yield (MD/CD)</td> <td>22.4/21.0 PPIW</td> <td>ASTM D882</td> </tr> <tr> <td>Tensile at Break (MD/CD)</td> <td>24.5/22.0 PPIW</td> <td>ASTM D882</td> </tr> <tr> <td>Elongation at Yield</td> <td>4.6/5.0%</td> <td>ASTM D882</td> </tr> <tr> <td>Elongation at Break (MD/CD)</td> <td>48.5/5.0%</td> <td>ASTM D882</td> </tr> <tr> <td>1% Secant Modulus (MD/CD)</td> <td>390,000/386,500 PSI</td> <td>ASTM D882</td> </tr> <tr> <td>Tear Strength (MD/CD)</td> <td>21/35</td> <td>ASTM D1922</td> </tr> </table>			Caliper	2.0 mils	ASTM D2103	Tensile at Yield (MD/CD)	22.4/21.0 PPIW	ASTM D882	Tensile at Break (MD/CD)	24.5/22.0 PPIW	ASTM D882	Elongation at Yield	4.6/5.0%	ASTM D882	Elongation at Break (MD/CD)	48.5/5.0%	ASTM D882	1% Secant Modulus (MD/CD)	390,000/386,500 PSI	ASTM D882	Tear Strength (MD/CD)	21/35	ASTM D1922					
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Adhesive	<p>710VHP is a permanent, rubber-based adhesive with excellent tack and ultimate adhesion to a variety of surfaces including polystyrene, polypropylene, polyethylene, paper and corrugate. Suitable for cold, damp labeling applications. Very good high speed and wider web converting.</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 rowspan="3">Peel Adhesion, lbs./in.</td> <td>Corrugate: 1.3</td> <td>PSTC-101A (30 min. applied)</td> </tr> <tr> <td>HDPE: 1.8</td> <td></td> </tr> <tr> <td>Stainless Steel: 2.7</td> <td></td> </tr> <tr> <td rowspan="3">Loop Tack (1"), lbs./in.</td> <td>Corrugate: 2.3</td> <td>PSTC-16</td> </tr> <tr> <td>HDPE: 3.2</td> <td></td> </tr> <tr> <td>Stainless Steel: 4.8</td> <td></td> </tr> <tr> <td colspan="3">Temperature Ranges</td> </tr> <tr> <td>Minimum Application</td> <td>+20°F (-7°C)</td> <td>CTM #45 Curwood Polyester Film Dry Surface</td> </tr> <tr> <td>Service Ranges</td> <td>-65°F to +160°F (-54°C to +71°C)</td> <td></td> </tr> </table>			Thickness, inches	0.0007 +/- 10%		Peel Adhesion, lbs./in.	Corrugate: 1.3	PSTC-101A (30 min. applied)	HDPE: 1.8		Stainless Steel: 2.7		Loop Tack (1"), lbs./in.	Corrugate: 2.3	PSTC-16	HDPE: 3.2		Stainless Steel: 4.8		Temperature Ranges			Minimum Application	+20°F (-7°C)	CTM #45 Curwood Polyester Film Dry Surface	Service Ranges	-65°F to +160°F (-54°C to +71°C)	
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Liner	<p>A semi-bleached super calendared kraft liner excellent for die cutting, stripping and label dispensing. Primarily for roll -to -roll applications.</p> <table border="1"> <tr> <td>Caliper, inches</td> <td>0.0024 +/- 10%</td> <td>TAPPI T-411</td> </tr> <tr> <td>Basis Weight, lbs. (24" x 36"/500 sheets)</td> <td>40 +/- 10%</td> <td>TAPPI T-410</td> </tr> </table>			Caliper, inches	0.0024 +/- 10%	TAPPI T-411	Basis Weight, lbs. (24" x 36"/500 sheets)	40 +/- 10%	TAPPI T-410																				
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Shelf Life	One year when stored at 72° F and 50% R.H.																												

Opticlear® is a registered trademark of Morgan Adhesives Company

This product complies with CONEG regulations.

All MACTac Roll Label products meet the requirements of the Clean Air Act of 1990.

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

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