



# PERFORMANCE GUIDE

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## GF9022-78 Opticlear® 3 Clear Polystyrene

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Description	Applications and End Uses			
<b>Product</b>	GF9022-78 is a 2.0 mil clear polystyrene film with a quick tack permanent adhesive and an unbleached 2.5 NK liner. The entire construction converts and prints on wider webs and higher-speeds than typical rubber based adhesive coated papers.	General-purpose clear film applications. Converts and dispenses easily. Ideal base stock for coupon labels.		
<b>Face</b>	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.			
<b>Physical Properties Without Adhesive</b>				
	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	
<b>Adhesive</b>	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. Exceptional high speed and wider web converting. Complies with FDA 21 CFR 175.105.			
<b>Physical Properties of Adhesive</b>				
	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	
	Service Ranges	-65°F to +160°F (-54°C to +71°C)	Polyester Film Dry Surface	
<b>Liner</b>	An unbleached super-calendered natural kraft liner excellent for die cutting and stripping. The liner is coated with a release system designed specifically for label dispensing. Primarily for roll -to -roll applications.			
	Caliper, inches	0.0025 +/- 10%	TAPPI T-411	
	Basis Weight, lbs. (24" x 36"/500 sheets)	42 +/- 10%	TAPPI T-410	
<b>Shelf Life</b>	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.

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

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