



# PERFORMANCE GUIDE

## Represents Typical Values Only

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**PTC1691-2**

Revised: 02/2014 KSH

**2 mil Clear Polypropylene / PUREtac CL216 / 1.2 mil PET liner**

| Description       | Applications and End Uses  |  |   |  |
|-------------------|--|--|---|--|
| <b>Product</b>    | PTC1691-2 is a 2.0 mil clear top coated Polypropylene film with a quick tack permanent adhesive designed for prime film labeling and a 1.2 mil PET liner.  | Label applications requiring a semi-conformable, clear, "No Label Look" film for food, cosmetic, beverage, and household cleaner market segments. Excellent flexo and thermal transfer printability. |   |  |
| <b>Face</b>       | A 2 mil clear, top coated, biaxially oriented polypropylene (BOPP) film designed for applications where ultra clarity is needed for a "no label" look. Proprietary top coating delivers excellent adhesion for superior graphics and print receptivity for various methods including: UV Flexo, Water Flexo, Gravure, UV Inkjet, Hot Stamp and Thermal Transfer. Great stiffness for efficient dispensability.         |  |   |  |
|                   | <b>Physical Properties Without Adhesive</b>  |  |   |  |
|                   | Caliper, inches  | 0.002 (2.0 mil)  | ASTM D2103                                      |  |
|                   | Gloss % Reflectance at 45° angle   | 85   | ASTM D2547                                      |  |
|                   | Haze   | 2.5  | ASTM D1003                                      |  |
|                   | Tensile, lbs./in.  | 20 MD 35 CD  | ASTM D882                                       |  |
|                   | Elongation, %  | 180 MD 55 CD   | ASTM D882                                       |  |
| <b>Adhesive</b>   | MACtac PUREtac CL216 is a permanent, rubber-based adhesive with excellent tack and ultimate adhesion to a variety of surfaces including polystyrene, polypropylene and polyethylene. MACtac PUREtac CL216 is designed for film labeling applications. It exhibits exceptional clarity and resistance to water whitening. Suitable for cold, damp labeling applications. Very good high speed and wider web converting. |  |   |  |
|                   | <b>Physical Properties of Adhesive</b>   |  |   |  |
|                   | Thickness, inches  | 0.0007 +/- 10%   |   |  |
|                   | 180° Peel Adhesion, lbs./in.   |  | CTM-8 (30 min. applied)<br>Reference: PSTC-101A |  |
|                   |  | HDPE: 3.5  |   |  |
|                   |  | Stainless Steel: 3.9   |   |  |
|                   |  | LDPE: 3.2  |   |  |
|                   |  | Glass: 3.8   |   |  |
|                   | Loop Tack (1"), lbs./in.   |  | CTM-25  |  |
|                   |  | HDPE: 2.9  |   |  |
|                   |  | Stainless Steel: 5.3   |   |  |
|                   |  | LDPE: 2.6  |   |  |
|                   |  | Glass: 5.2   |   |  |
|                   | Temperature Ranges   |  |   |  |
|                   | Minimum Application  | +32°F (-0°C)   | CTM #45 Curwood                                 |  |
|                   | Service Ranges   | -50°F to +160°F (-46°C to +71°C)   | Polyester Film Dry Surface                      |  |
| <b>Liner</b>      | A 1.2 mil clear polyester liner excellent for die cutting, stripping and label dispensing. Primarily for roll-to-roll applications. Specifically designed for use with clear film face materials or applications requiring excellent clarity.  |  |   |  |
|                   | Caliper, inches  | 0.0012 +/- 10%   | TAPPI T-411                                     |  |
|                   | Basis Weight, lbs. (24" x 36"/500 sheets)  | 26 +/- 10%   | TAPPI T-410                                     |  |
| <b>Shelf Life</b> | One year when stored at 72° F and 50% R.H.   |  |   |  |

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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