



## Adhesive Data Sheet

# EP-12 Permanent

**General Description:** EP-12 Permanent is a high tack, high clarity acrylic pressure sensitive adhesive engineered to provide resistance to severe environments including exposures to petroleum based oils, grease, organic solvents, and high humidity. It combines high peel with exceptional initial tack, reaching the full 5.0 peel strength in under 20 minutes. EP-12 provides a high level adhesion to low surface energy materials including HDPE and powder coated paints.

### Adhesion

Substrate	Loop Tack <sup>1</sup>	Shear <sup>2</sup>	Peel Adhesion <sup>3</sup>
Stainless Steel	3.5 lbs	0.5 hours	5.0 lbs (cohesive)
HDPE	N/A	N/A	4.0 lbs

### Usage

<b>Application Temperature Minimum:</b>	+40° F (+5° C)
<b>Service Temperature:</b>	-22°F to +302°F (-30°C to +150°C) subject to face stock limitations
<b>FDA Compliance:</b>	Complies with the Code of Federal Regulations, Title 21, Section 175.105 <sup>4</sup>

### Environment

<b>Moisture &amp; Humidity Resistance:</b>	Excellent
<b>Sunlight &amp; Weather Resistance:</b>	Excellent
<b>Heat Resistance:</b>	Very Good
<b>Chemical Resistance:</b>	Acids: Excellent Alkalis: Excellent Oils: Excellent

Notes:

1. TLMI-LIB 1, 1 mil polyester face stock, 1 mil of adhesive
2. ASTM-D-3654, PSTC-7, 1 mil polyester face stock, 1 mil of adhesive, ½" x ½" with 500 gm static load
3. ASTM D-3330, PSTC-1, 1 mil polyester face stock, 1 mil of adhesive
4. Compliance with 21 CFR 175.105 permits the use of this adhesive in applications for which the adhesive either (a) is separated from the food by a functional barrier, which will prevent the migration of any of the adhesive components to the food, or (b) has incidental contact with food limited to the trace amount at the seams or the edges of the label.

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