

# Techcryl 2077

## Emulsion – Pressure Sensitive

### Recycling Compatible PSA for Paper Labels

Techcryl 2077 is a tackified acrylic emulsion, which produces a pressure sensitive film upon drying. Meeting the United States Postal Specification USPS-P-1238F for “Environmentally Benign Self Adhesive Postage Stamps”, Techcryl 2077 provides aggressive immediate adhesion to a variety of surfaces including paper, cellophane, polyester, polypropylene, polyethylene and corrugated. Additionally, Techcryl 2077 has been thoroughly tested as a recycling compatible adhesive “RCA” for paper labels and has been verified as meeting the TLMI Recycling Compatible Adhesive Specification.

<b>FDA Status</b>	Complies with 21CFR175.105
<b>Recycling Compatible Adhesive Status</b>	<b>Verified as recycling compatible by testing in accordance with TLMI LRP-2 and meeting the requirements of the TLMI RCA Specification.<sup>1</sup></b>
<b>Applications:</b>	Environmentally benign self-adhesive postage stamps General-purpose permanent labels for film Adhesive for applying window films to cartons

#### Typical Properties

Total Solids	57.0 ± 1.0
Viscosity, as supplied	As Required
pH	8.0 ± 1.0
Weight per Gallon @ 23°C	8.6 lbs.
Minimum Application Temperature	30°F
Service Temperature Range	-50°F to 290°F

Web:	<b>50# EDP</b>	
Coatweight; lb./3000 ft <sup>2</sup>	13.0	
	90° Peel (oz./in.) (1)	Loop Tack (oz./in. <sup>2</sup> ) (2)
Corrugated:	22 ft	30
Stainless Steel	46 pt	73
LDPE	24 pt	73
HDPE	21 pt	58
OPP	29 pt	70
Glass	40 pt	68
Shear; 1" x 1" x 1000 grams	496 minutes	

Web:	<b>1 mil Polyester</b>	
Coatweight; lb./3000 ft <sup>2</sup>	13.0	
	180° Peel (oz./in.) (1)	Loop Tack (oz./in. <sup>2</sup> ) (2)
Corrugated:	42	22
Stainless Steel	43	34
LDPE	40	34
HDPE	42	28
OPP	58	39
Glass	50	38
Shear; 1" x 1" x 1000 grams	579 minutes	

Samples were prepared by transfer coating and drying for 2½' @ 100°C

- (1) PSTC-101
  - (2) TLMI Loop Tack, 1 in<sup>2</sup>, 12 ipm separation
  - (3) PSTC-107
- Ft – denotes fiber tear, pt – denotes paper tear

June 07

<sup>1</sup>TLMI LRP-2 is the Tag and Label Manufacturers Institute Laboratory Recyclability Protocol for testing and verifying the recycling compatibility of pressure sensitive adhesives for paper labels. TLMI RCA Specification is the Tag and Label Manufacturers Institute Recycling Compatible Adhesive Specification. It establishes the level of contaminants that a recyclable pressure sensitive adhesive label must meet to be verified as recyclable in paper pulp mill recycling operations.

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