



## NOVACRYL™ 3797

Acrylic pressure sensitive adhesive for light-removable applications

NovaCryl 3797 water-based acrylic polymer adhesive can be used alone or in formulated PSA's for light-removable to removable applications. When dried, this adhesive leaves a clear, colorless film, which is very soft, flexible and slightly tacky at room temperature. NovaCryl 3797 is compatible with many formulating ingredients such as wetting aids, defoamers and rheology modifiers. This adhesive is light-removable from smooth surfaces, but should be thoroughly tested under actual end-use conditions to ensure that the desired performance is achieved.

### NOVACRYL 3797 ADVANTAGE

- Low-to-medium peel and tack
- Excellent shear strength
- Low adhesion build and clean removability from most surfaces
- Complies with FDA 21 CFR 175.105

## TYPICAL PROPERTIES

### PHYSICAL PROPERTIES

Type	Acrylic emulsion
Solids	59-61%
pH	2.1-3.1
Brookfield Viscosity	<3000 cps (LVT #2 spindle at 60 rpm, 25°C)
Surface Tension	48 dyn/cm
Glass Transition Temperature	-43°C
Average Particle Size	Large

### CHEMICAL/MECHANICAL PROPERTIES

Mechanical Stability	Good
Ionic Character	Anionic

## ADHESION PERFORMANCE

Adhesion Test	Type	Failure Mode	Typical Adhesion Performance*		
			(oz/in)	(lbs/in)	(N/25 mm)
180° peel on Stainless Steel (SS)	30 min.	A	6.4	.04	1.8
	24 hr.	A	8.0	0.5	2.3
	1 wk.	A	9.6	0.6	2.7
Loop Tack on SS	1" x 1"	A	14.4	0.9	4.1
Shear (30 min. dwell)	1/2" x 1/2" x 500 g	C	>100 hrs	>100 hrs	>100 hrs

Failure Mode: A = Adhesive, C = Cohesive

\* All adhesion properties were evaluated on direct-coated 2 mil polyester facstock at 0.9 mil dry coat weight. PSTC 101 for peel adhesion, PSTC 16 for loop tack and PSTC 107 for shear testing.

## FDA STATUS

Complies with 21 CFR 175.105 (Substances for use only as components of adhesives).

## APPLICATIONS

NovaCryl 3797 is designed to be used in removable PSA tape or label applications and as a primer for adhesive coatings. It will perform well as a removable tape or label from most smooth surfaces, including glass, metal and plastic. It exhibits smooth adhesion and constant peel adhesion, even after extended aging.



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### FORMULATION AND COMPATIBILITY

NovaCryl 3797 can be formulated with permanent PSA's to customize a desired peel and tack for a given application.

#### COATER READY PRODUCTS

NovaCryl 3797 A – Wetting aid added.

NovaCryl 3797 B – Wetting aid, defoamer added.

NovaCryl 3797 C – Wetting aid, defoamer added, adjust viscosity/solids.

### STORAGE, HANDLING AND PACKAGING

This product is available in a tank truck, 2200 lb. tote, 480 lb. fiber drum or 460 lb. plastic drum.

Protect emulsion from freezing. Recommended storage temperature is 70°F (22°C). When stored as recommended, the shelf stability of the product is twelve months. Stir and mix well before using.

As with all chemicals, please read the material safety data sheet (MSDS) prior to use. An MSDS for each OMNOVA product is provided with the shipment and periodically thereafter. An MSDS may also be obtained at any time by contacting your Customer Service Representative or by calling (888)253-5454.

To learn more about this product, or any other of OMNOVA Solutions' specialty chemicals, please contact us at:

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NOTE: Although the data supplied above is believed to be accurate, each user is advised to make an independent determination as to whether the described product(s) is/are appropriate for a particular use or application, whether such use will comply with all applicable laws or regulations, or whether such use will infringe the intellectual property rights of third parties.