



NOVACRYL™ PS-R 300

Acrylic pressure sensitive adhesive for removable applications

NovaCryl PS-R 300 water-based acrylic polymer adhesive can be used alone or in formulated PSA's for removable applications. This adhesive displays medium initial tack and adhesion and builds to a medium removability level on most surfaces.

NovaCryl PS-R 300 is compatible with many formulating ingredients such as wetting aids, defoamers and rheology modifiers. This adhesive is removable from most surfaces but should be thoroughly tested in actual end-use conditions to ensure that the desired performance is achieved.

TYPICAL PROPERTIES

PHYSICAL PROPERTIES

Type	Acrylic emulsion
Solids	59–61%
pH	7–8
Brookfield Viscosity	200–500 cps (LVT #2 spindle at 60 rpm, 25°C)
Surface Tension	38 dyn/cm
Glass Transition Temperature	-37°C
Average Particle Size	Large

CHEMICAL/MECHANICAL PROPERTIES

Mechanical Stability	Excellent
Ionic Character	Anionic

NOVACRYL PS-R 300 ADVANTAGE

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

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	28.8	1.8	8.0
	24 hr.	A	32.0	2.0	8.9
	1 wk.	A	35.2	2.2	9.8
Loop Tack on SS	1" x 1"	A	24.0	1.5	6.7
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 facestock 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 FDA 21 CFR 175.105 (Substance for use only as components of adhesives).

APPLICATIONS

NovaCryl PS-R 300 is designed to be used for painters masking tape, labels and protective films.



NOVACRYL™ PS-R 300

FORMULATION AND COMPATIBILITY

NovaCryl PS-R 300 adhesive can be used alone or formulated for a specific application or coating line configuration and is compatible with many wetting agents, defoamers and rheology modifiers.

COATER READY PRODUCTS

NovaCryl PS-R 301 – Wetting aid added.

NovaCryl PS-R 302 – Wetting aid, defoamer added.

NovaCryl PS-R 303 – 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:

Phone: (803)385-5181 • Email: pccustserv@omnova.com



RESPONSIBLE CARE[®]
OUR COMMITMENT TO SUSTAINABILITY

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.