



NOVACRYL™ PS-P 170

Acrylic pressure sensitive adhesive for permanent applications

NovaCryl PS-P 170 water-based acrylic polymer adhesive can be used alone or in formulated PSA's for permanent or tight removability applications. This adhesive displays medium initial tack and adhesion and builds to a permanent level on most surfaces. NovaCryl PS-P 170 is compatible with many formulating ingredients such as wetting aids, defoamers and rheology modifiers.

TYPICAL PROPERTIES

PHYSICAL PROPERTIES

Type	Acrylic emulsion
Solids	59-61%
pH	4-6
Brookfield Viscosity	<1000 cps (LVT #3 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-P 170 ADVANTAGE

- Medium tack and peel on most surfaces
- Excellent shear strength
- Free of Alkyl Phenol Ethoxylate (APE) type surfactants
- Complies with FDA 21 CFR 175.105 and 21 CFR 176.180

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	35.2	2.2	9.8
	24 hr.	A	36.8	2.3	10.2
	1 wk.	A	52.8	3.3	14.7
Loop Tack on SS	1" x 1"	A	28.8	1.8	8.0
Shear (30 min. dwell)	1/2" x 1/2" x 500 g	C	>15 hrs	>15 hrs	>15 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 21 CFR 175.105 (Substance for use only as components of adhesives) and 176.180 (Components of paper and paperboard in contact with dry food).

APPLICATIONS

NovaCryl PS-P 170 can be formulated for use in applications requiring high cohesive strength or used in blends with tackifiers or high tack PSA's and for permanent paper and film labels, especially for primary product labeling.



NOVACRYL™ PS-P 170

FORMULATION AND COMPATIBILITY

NovaCryl PS-P 170 adhesive can be used alone or formulated for a specific application or coating line configuration. It is compatible with many wetting agents, defoamers and rheology modifiers. To enhance adhesion performance 5–35% (by wt) tackifier dispersion can be added. **NovaCryl PS-P 170** is compatible with hydrocarbon, rosin ester, hydrogenated rosin ester tackifiers and their blends.

COATER READY PRODUCTS

NovaCryl PS-P 171 – Wetting aid added.

NovaCryl PS-P 172 – Wetting aid, defoamer added.

NovaCryl PS-P 173 – 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



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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.