



NOVACRYL™ 3088

Styrene butadiene adhesive for permanent or repositionable pressure sensitive applications

NovaCryl 3088 modified carboxylated styrene butadiene polymer adhesive can be used alone or in tackified adhesives for PSA applications. This adhesive displays low-to-medium initial tack, initial adhesion and ultimate adhesion and excellent shear strength. NovaCryl 3088 is compatible with many formulating ingredients such as wetting aids, thickeners and tackifier resins.

TYPICAL PROPERTIES

PHYSICAL PROPERTIES

Type	Styrene butadiene latex
Solids	50%
pH	7.5
Density	8.3 lbs/gal
Brookfield Viscosity	50–200 cps (RVT #2 spindle at 60 rpm, 25°C)
Surface Tension	50 dyn/cm
Glass Transition Temperature	-50°C
Average Particle Size	Average
Color	White

CHEMICAL/MECHANICAL PROPERTIES

Mechanical Stability	Excellent
Ionic Character	Anionic

NOVACRYL 3088 ADVANTAGE

- Low-to-medium initial tack, initial adhesion and ultimate adhesion
- Excellent shear strength
- Partial replacement to natural rubber latex
- Complies with FDA 21 CFR 175.105, 21 CFR 176.170 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	12.8	0.8	3.6
	24 hr.	A	40.0	2.5	11.1
	1 wk.	A	44.8	2.8	12.5
Loop Tack on SS	1" x 1"	A	11.2	0.7	3.1
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 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 (Substances for use only as components of adhesives), 176.170 (Components of paper and paperboard in contact with aqueous and fatty food) with limitations and 176.180 (Components of paper and paperboard in contact with dry food).



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APPLICATIONS

NovaCryl 3088 is designed for general purpose permanent labels with high adhesion and/or blended with natural rubber latex for high shear tape applications.

FORMULATION AND COMPATIBILITY

NovaCryl 3088 is fully miscible with natural rubber up to 20% weight. The homogeneous blends show the same or better auto-adhesion properties as natural rubber. Natural rubber's low tack is preserved over a wide concentration range of **NovaCryl 3088** in blends [K.D. Kim et al., "Styrene-Butadiene Rubber Latex Polymers with Improved Auto-Adhesion", PSTC Annual Meeting, 2009].

COATER READY PRODUCTS

NovaCryl 3088 A – Wetting aid added.

NovaCryl 3088 B – Wetting aid, defoamer added.

NovaCryl 3088 C – Wetting aid, defoamer added, adjust viscosity/solids.

STORAGE, HANDLING AND PACKAGING

This product is available in a tank truck, 2200 lb. tote, 465 lb. fiber drum or 450 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. For additional information, please read OMNOVA's Latex Handling and Storage Guide.

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.