

Technical Datasheet

Bostik, Inc.



AROSET™ 2100 Self-Crosslinking Pressure Sensitive Adhesive

Description	AROSET 2100 is a single-package, self-crosslinking acrylic polymer that cures at moderate temperatures upon complete solvent removal. At room temperature, full cure may take up to one week.
Suggested Uses	<ul style="list-style-type: none">• Industrial tapes• Transfer films and tapes• Durable decals and labels• Foam tapes
Characteristics	<ul style="list-style-type: none">• Self-crosslinking• Single-package• Coater ready• Excellent adhesion to high surface energy substrates, e.g. Al, SS, glass, PC, ABS• Excellent ambient and elevated temperature shear• Broad service temperature• Solvent and chemical resistant• Optically clear
Solubility	Soluble in ketones, esters, aromatic and aliphatic hydrocarbons.
Regulatory	The ingredients in this product are in compliance with the following chemical inventories: Toxic Substances Control Act Inventory (TSCA), Domestic Substance List (DSL).

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Typical¹ Physical Properties

Percent Non-Volatiles	34.5 – 37.5
Brookfield Viscosity @ 25°C, cps	6,000 – 16,000
Solvents	Ethyl acetate, i-propanol, hexanes
Solvent Ratio	81/10/9
Density	0.91 g/cm ³
Flash Point Range (SETA)	<20°F (-7°C)

Sample Preparation

Face Stock	2 mil Al foil ²
Release Liner	Polycoated Bleached Kraft Liner
Adhesive Film Thickness	2 mil (50.8 microns)
Coating Weight	32 lbs/3000 ft ² (54 grams/m ²)
Coating Method	Transfer coat to 2 mil Al foil
Drying Conditions	15 minute dwell at room temperature, followed by 15 minutes at 200°F (93°C)

Adhesion Properties

PSTC-101, 180° Peel Adhesion (15 min dwell at RT) (72 hour dwell at RT)	6.0 lb/in (26.7 N/25.4 mm) 7.0 lb/in (31.1 N/25.4 mm)
PSTC-101, 90° Peel Adhesion (15 min dwell at RT) (72 hour dwell at RT) (72 hour dwell at 158°F (70°C))	5.0 lb/in (22.2 N/25.4 mm) 7.0 lb/in (31.1 N/25.4 mm) 10.0 lb/in (44.5 N/25.4 mm)
PSTC-16, Loop Tack	3.5 lb/in (15.6 N/25.4 mm)

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Cohesive Properties

PSTC-107, Shear Adhesion, RT (½ in x ½ in x 1000 grams) (12.7 mm x 12.7 mm x 1000 grams)	2000+ hours
PSTC-107, Shear Adhesion, RT (1 in x 1 in x 10 lbs) (25.4 mm x 25.4 mm x 4536 grams)	1000+ hours
PSTC-107, Shear Adhesion, 200° F (93° C) (½ in x ½ in x 1000 grams) (12.7 mm x 12.7 mm x 1000 grams)	100+ hours
PSTC-107, Shear Adhesion, 300° F (149° C) (½ in x ½ in x 500 grams) (12.7 mm x 12.7 mm x 500 grams)	100+ hours
Shear Adhesion Failure Temperature (SAFT) (1 in x 1 in x 1000 grams, 2°F/min) (25.4 mm x 25.4 mm x 1000 grams, 2°F/min)	464° F (240° C)

¹ For guidance only ² Al foil supplied by Metal Associates Inc

Performance on other
polar surfaces
including plastics

Sample Preparation	Same as above, 2.0 mil Adhesive Thickness
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Adhesion Properties

PSTC-101, 90° Peel Adhesion to ABS (72 hour dwell at RT)	4.0 lbs/in (17.8 N/25.4 mm)
PSTC-101, 90° Peel Adhesion to Polycarbonate (72 hour dwell at RT)	4.0 lbs/in (17.8 N/25.4 mm)
PSTC-101, 90° Peel Adhesion to PVC (72 hour dwell at RT)	3.0 lbs/in (13.3 N/25.4 mm)
PSTC-101, 90° Peel Adhesion to PMMA (72 hour dwell at RT)	4.0 lbs/in (17.8 N/25.4 mm)
PSTC-101, 90° Peel Adhesion to Glass (72 hour dwell at RT)	7.0 lbs/in (31.1 N/25.4 mm)
PSTC-101, 90° Peel Adhesion to Al (72 hour dwell at RT)	6.5 lbs/in (28.9 N/25.4 mm)

Recommended Storage	Keep in tightly covered container. Maintain full containers to prevent loss of solvent. Store in a cool place, preferably below 77°F (25°C).
Shelf Life	When stored under recommended conditions, shelf life is 12 months from date of manufacture.
Standard Packaging	Nonreturnable 55-gallon steel drums
DOT Label Requirements	Flammable Liquid
Handling	AROSET 2100 pressure sensitive adhesive contains ingredients which could be harmful if mishandled. Contact with skin and eyes should be avoided and necessary protective equipment and clothing should be worn. For important health, safety and handling information, consult Ashland's Safety Data Sheet before using this product.

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Notice

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Bostik requests that the user reads, understands and complies with the information contained herein and the current Safety Data Sheet.