

Technical Datasheet

Bostik, Inc.



AROSET™ PS 6283 Self-Crosslinking Pressure Sensitive Adhesive

Description AROSET PS 6283 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 • Decals • Overlaminating films • Solar films

Characteristics • Self-crosslinking • Single-package • Balanced tack, adhesive and cohesive properties • Excellent optical clarity

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 Substances List (DSL).

Typical¹ Physical Properties

| | |
|------------------------------------|--|
| Percent Non-Volatiles | 41.0 – 45.0 |
| Brookfield Viscosity @ 77°F (25°C) | 4,200 – 5,800 |
| Solvents | Ethyl Acetate/Heptane/Isopropanol /Toluene |
| Solvent Ratio | 68.0/15.8/15.2/1.0 |
| Density | 7.6 ± 0.2 lbs/gal 0.91 ± 0.03 g/cm ³ |
| Flash Point Range (SETA) | <20°F (-7°C) |

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Typical¹
Performance
Properties

| SAMPLE PREPARATION | |
|-------------------------|---|
| Face Stock | 2 mil (50.8 micron) Mylar ² Polyester |
| Release Liner | Polycoated Bleached Kraft Liner |
| Adhesive Film Thickness | 1.0 mil (25.4 microns) |
| Coating Weight | 16 lbs/3000 ft ² (27 grams/m ²) |
| Coating Method | Direct Coat to Mylar ² |
| Drying Conditions | 5 minute dwell at room temperature, followed by 12 minutes at 212°F (100°C) |

| ADHESION PROPERTIES | |
|------------------------------|-----------------------------|
| PSTC-101, 180° Peel Adhesion | |
| (15 minute dwell) | 4.0 lbs/in (17.9 N/25.4 mm) |
| (24 hour dwell) | 4.3 lbs/in (19.1 N/25.4 mm) |
| PSTC-16 Loop Tack | 3.0 lbs/in |

| COHESIVE PROPERTIES | |
|---|-----------|
| PSTC-107, Shear Adhesion | |
| (1 in x 1 in x 1000 grams) (25.4 mm x 25.4 mm x 1000 grams) | 24+ hours |
| Williams Plasticity 5 minutes @ 212°F (100°C) | 3.0 mm |

¹ For guidance only

² MYLAR is a registered trademark of E.I. DuPont de Nemours & Co.

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| | |
|------------------------|---|
| Recommended Storage | Keep in tightly covered container. Maintain full containers to prevent loss of solvent. Store in cool place, preferably below 77 °F (25 °C). To guarantee product quality an organized stock program is recommended using this adhesive with a First-Expired, First-Out (FEFO). |
| Shelf Life | When stored under recommended conditions, shelf life is 12 months from date of manufacture. |
| Standard Packaging | Nonreturnable 55-gallon (208 liters) steel drums |
| DOT Label Requirements | Flammable Liquid |
| Handling | AROSET PS 6283 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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