

## PARALOID™ B-67 100% Solid Grade Thermoplastic Acrylic Resin

### Description

PARALOID B-67 solid grade acrylic resin is a very hydrophobic polymer providing excellent water resistance. It is also a very good pigment dispersant.

PARALOID B-67 acrylic resin is particularly compatible with medium and long-oil alkyds, drying oils, and oleoresinous varnishes. When used to modify these materials, coatings with improved hardness, faster drying speed, and better retention of color and gloss result. Hold out and brushing characteristics are also improved.

PARALOID B-67 acrylic resin is recommended for general product finishing and as a topcoat in vacuum metallizing applications.

### Solubility

Information about the solvent compatibility of PARALOID B-67 acrylic resin can be found in Rohm and Haas brochure 82A114--*Paraloid Solid Grade Resins, Solvent Selection Chart*.

### Typical Properties

These properties are typical but do not constitute specifications.

Physical Form	Pellets
Chemical Composition	IBMA Polymer
Tg, °C	50
Bulk Density, 25°C, lb./gal.	8.6
Solubility Parameter	8.6
Ultimate Hardness of Clear Films, KHN	11 to 12

### Properties in White Lacquers<sup>1</sup>

Tukon Hardness		Whiteness (K color low numbers best)		Cross Hatch <sup>3</sup>	
30 min. at 180°F	13.2	30 min. at 300°F	8.4	30 min. at 180°F	3
30 min. at 300°F	14.0	16 hrs. at 350°F	10.5	30 min. at 300°F	3
Pencil Hardness		Flexibility <sup>2</sup> , 1/8, 1/4, 1/2 inch mandrels		Mustard Staining (30 minute exposure)	
30 min. at 180°F	HB	30 min. at 180°F	6, 5, 3	30 min. at 180°F	None
30 min. at 300°F	HB	30 min. at 300°F	6, 5, 4	30 min. at 300°F	None
Gloss, 20°		Printing, 2 psi for 1 hour at 140°F		Gasoline Resistance (15 minute exposure)	
30 min. at 180°F	69	30 min. at 180°F	Moderate	30 min. at 180°F	Dissolves
30 min. at 300°F	76	30 min. at 300°F	Light	30 min. at 300°F	Dissolves
Gloss, 60°		Knife Adhesion		Spray Conditions	
30 min. at 180°F	89	30 min. at 180°F	Very Poor	Viscosity, No. 4 Ford Cup, sec.	15
30 min. at 300°F	90	30 min. at 300°F	Poor	Solids Content, %	35.0

Note: Drying the coatings at 300°F for 30 minutes simulates final properties of the resin.

<sup>1</sup>The white lacquers were formulated at a titanium dioxide/binder ratio (solids basis) of 30/70. The properties were determined after coatings were sprayed on BONDERITE 1000.

<sup>2</sup>The degree of cracking at the bend over each mandrel is rated on a 0 (no failure) to 10 (complete flaking) scale.

<sup>3</sup>The degree of flaking at the scribed cross hatch is rated on a 0 (no failure) to 5 (complete lift off) scale.

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