



PARALOID™ B-72 100%
Solid Grade Thermoplastic Acrylic Resin

Description

PARALOID B-72 general-purpose thermoplastic acrylic resin is similar to PARALOID B-66 acrylic resin but capable of forming softer films. The approximate hardness (KHN) is 10-11 compared to 12-13 for PARALOID B-66 resin.

PARALOID B-72 acrylic resin is unique in possessing a high tolerance for ethanol. The property allows its use in applications not tolerant of strong solvents. The alcohol dispersions may be cloudy or milky. However, they form clear, coherent films.

PARALOID B-72 has low reactivity with sensitive phosphorescent and luminescent pigments to produce stable, durable, non-yellowing coatings. It is compatible with vinyls, cellulose, chlorinated rubbers, and silicones. It is well suited for white and metallic aerosols, clear coatings for wood, nitrocellulose modified coatings for general product finishing, pigment dispersion (fluorescent), flexographic printing inks, and gravure plastic coatings.

Solubility

Information about the solvent compatibility of PARALOID B-72 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
Bulk Density, 25°C, lb/gal	9.6
Solubility Parameter	9.3
Tg (°C)	40
Ultimate Hardness of Clear Films, KHN	10 to 11
Chemical Composition	EMA Copolymer

Properties in White Lacquers¹

Tukon Hardness	Whiteness	Cross Hatch ³
30 min. at 180°F 2.9	(K color low numbers best)	30 min. at 180°F 0
30 min. at 300°F 12.1	30 min. at 300°F 7.7	30 min. at 300°F 0
	16 hrs. at 350°F 11.8	
Pencil Hardness	Flexibility ² , 1/8, 1/4, 1/2 inch mandrels	Mustard Staining (30 minute exposure)
30 min. at 180°F H	30 min. at 180°F 0, 0, 0	30 min. at 180°F Light
30 min. at 300°F H	30 min. at 300°F 4, 3, 2	30 min. at 300°F Light
Gloss, 20°	Printing, 2 psi for 1 hour at 140°F	Gasoline Resistance (15 minute exposure)
30 min. at 180°F 77	30 min. at 180°F V. Heavy	30 min. at 180°F Wipes Off
30 min. at 300°F 76	30 min. at 300°F Moderate	30 min. at 300°F Wipes Off
Gloss, 60°	Knife Adhesion	Spray Conditions
30 min. at 180°F 93	30 min. at 180°F Very Good	Viscosity, No. 4 Ford Cup, sec. 15
30 min. at 300°F 92	30 min. at 300°F Very Good	Solids Content, % 25.0



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

¹The 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.

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

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

Additional Information

PARALOID B-65 is supplied in a powder form that is easily dissolved in aromatic hydrocarbons as well as a variety of esters and ketones.

The product detailed in this bulletin is supplied from our manufacturing facility in Louisville, Kentucky, USA with conformance to the requirements of ISO 9002 or to local equivalent quality protocols ensures consistently high standards, immaterial of the source, although the pack size and method of packaging may differ.

This product is available in Asia Pacific through Wilbur Ellis Co./Connell Bros. Co.

Safe Handling Information

Rohm and Haas Material Safety Data Sheets (MSDS) contain pertinent information that you may need to protect your employees and customers against any known health or safety hazards associated with our products. Rohm and Haas Company recommends that you have your local Rohm and Haas technical representatives supply you with MSDS on all our products before using them in your facilities. We also suggest that you contact the suppliers of other materials recommended for use with our products for appropriate health and safety regulations before use.

Chemical Registration

Many countries within the Asia-Pacific region require the registration of chemicals, either imported or produced locally, prior to their commercial use. Violation of these regulations may lead to substantial penalties imposed upon the user, the importer or manufacturer, and/or cessation of supply. It is in your interests to ensure that all chemicals used by you are registered. Rohm and Haas Company does not supply unregistered products unless permitted under limited sampling procedures as a precursor to registration.

Rohm and Haas Company makes no warranties, either expressed or implied, as to the accuracy or appropriateness of this data and expressly excludes any liability upon Rohm and Haas arising out of its use. We recommend that the prospective users determine for themselves the suitability of Rohm and Haas' materials and suggestions for any use prior to their adoption.

Suggestions for use of our products or the inclusion of descriptive material from patents and the citation of specific patents in this publication should not be understood as recommending the use of our products in violation of any patent or as permission or license to use any patents of the Rohm and Haas Company. Material Safety Data Sheets outlining the hazards and handling methods for our products are available on request.

ACRYSOL, AVANSE, ELASTENE, FASTRACK, KATHON, LUCIDENE, MAINCOTE, OROTAN, PARALOID, PRIMAL, ROCIMA, ROPAQUE, ROSHIELD and WIKOLITH are trademarks of Rohm and Haas Company, or of its subsidiaries or affiliates. RHOPLEX and TAMOL are intended to designate goods sold in North and South America; the same goods may be sold in other countries generally under other company trademark designations.

All other trademarks shown in this bulletin are the property of the respective manufacturers or agents.



©Rohm and Haas, 2007 All rights reserved.

February 2007