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PARALOID™ B-72 100% Solid thermoplastic acrylic resin

DESCRIPTION:

PARALOID B-72 thermoplastic acrylic resin for general use is similar to PARALOID B-66 acrylic resin, but can form softer films. The estimated 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 to ethanol. The property allows its use in applications that are not tolerant to strong solvents. The alcohol dispersions can be turbid or milky. However, they form clear, coherent films.

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

Typical characteristics:

These characteristics 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 Paints⁽¹⁾:

Tukon hardness	Whiteness	Crosshatch ⁽³⁾
30 minutes at 180°F 2.9	(K colour low numbers best)	30 minutes. at 180°F 0
30 minutes. at 300°F 12.1	30 minutes at 300°F 7.7	30 minutes at 300°F 0
	16 hours at 350 ° F 11,8	
Pencil hardness	Flexibility ⁽²⁾ , 1/8, 1/4, 1/2	Mustard colouring
30 minutes at 180°F H	inch spindle	(30 minutes exposure)
30 minutes. at 300°F H	30 minutes at 180°F 0, 0, 0	30 minutes at 180°F Light
	30 minutes. at 300°F 4, 3, 2	30 minutes at 180°F Light
		30 minutes. at 300°F Light
Gloss, 20	Printing, 2 psi for	Resistance to petrol:
30 minutes at 180°F 77	1 hour at 140°F	(15 minutes exposure)
30 minutes. at 300°F 76	30 minutes at 180°F V. Heavy	30 minutes at 180°F Sweeps
out	30 minutes. at 300°F Moderate	30 minutes. at 300°F Wipes out
Gloss, 60	Knife adhesion	Spray conditions
30 minutes at 180°F 93	30 minutes at 180°F Very good	Viscosity, no. 4 Ford Cup, sec. 15
30 minutes at 300°F 92	30 minutes at 300°F Very good	Solids content, % 25.0

Remark:

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

⁽¹⁾ The white coatings were formulated in a titanium dioxide/binding agent (solid state basis) ratio of 30/70. The properties were determined after the coatings were sprayed on Bonderite 1000.

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



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⁽³⁾ The degree of flaking at the registered cross hatch is rated on a scale of 0 (no flaking) to 5 (full flaking).

Additional information:

PARALOID B-65 comes in a powder form that is readily soluble in aromatic hydrocarbons and a variety of esters and ketones.

The product described in this bulletin is supplied from our production facility in Louisville, Kentucky, USA, in accordance with the requirements of ISO 9002 or local equivalent quality protocols, ensuring consistently high standards regardless of source, although pack size and packing method may vary.

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

Information on safe use:

Rohm and Haas Material Safety Data Sheets (MSDS) contain relevant information that you may need to protect your employees and customers from known health or safety hazards associated with our products. Rohm and Haas Company recommends that you have your local Rohm and Haas technical representatives provide you with an MSDS on all our products before using them in your facilities. We also recommend that you contact the suppliers of other materials recommended for use with our products for proper health and safety instructions before use.

Chemical registration:

Many countries in the Asia-Pacific region require the registration of chemicals, whether imported or manufactured locally, before they are used commercially. Violation of these regulations may result in substantial fines to the user, importer or manufacturer and/or the discontinuation of supply. It is in your interest to register all the chemicals you use. Rohm and Haas Company will not supply unregistered products unless permitted under restricted sampling procedures as a precursor to registration.