ROHM AND HAAS

PARALOID™ B-66, 100% Solid Grade Thermoplastic Acrylic Resin

Description

PARALOID B-66 thermoplastic acrylic resin is an excellent general-purpose resin with the same characteristics as the solution grade. In appropriate solvents, PARALOID B-66 acrylic resin forms clear solutions which air-dry extremely fast to form hard, colorless films which display excellent block resistance and color retention.

PARALOID B-66 acrylic resin is well suited for such applications as clear aerosols, concrete floors, gravure printing inks, ABS, polycarbonate, polystyrene coatings, maintenance coatings, specification lacquers and general product finishing.

Solubility

Information about the solvent compatibility of PARALOID B-66 acrylic resin can be found in Rohm and Haas brochure **82A114--*Paraloid Solid Grade Resins, Solvent Selection Chart.***

PHYSICAL PROPERTIES

The following are typical, but should not be considered as specifications.

Appearance	Powder	Viscosity, Brookfield RVT, cps	
Solids, by mass, %	100.0	(40% solution in xylene @25°C)	590
Solids, by volume, %	100.0		
Density @ 25°C, kg/litre	1.10	Solubility parameter	9.0
Glass transition temperature (Tg), measured by DSC, °C (onset)	50	Ultimate hardness of clear film (KHN)	12-13

Properties in White Lacquers[1]

Tukon Hardness		**Whiteness**		**Cross Hatch[3]**	
30 min. at 180°F	9.3	(K color low numbers best)		30 min. at 180°F	0
30 min. at 300°F	13.7	30 min. at 300°F	8.2	30 min. at 300°F	0
		16 hrs. at 350°F	8.2		
Pencil Hardness		**Flexibility 2, 1/8, 1/4, 1/2 inch mandrels**		**Mustard Staining** (30 minute exposure)	
30 min. at 180°F	F				
30 min. at 300°F	H	30 min. at 180°F	6, 5, 4	30 min. at 180°F	None
		30 min. at 300°F	5, 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	46				
30 min. at 300°F	78	30 min. at 180°F	Light	30 min. at 180°F	Dissolves
		30 min. at 300°F	Trace	30 min. at 300°F	Dissolves
Gloss 60°		**Knife Adhesion**		**Spray Conditions**	
30 min. at 180°F	83	30 min. at 180°F	Fair	Viscosity, No. 4 Ford Cup, sec.	15
30 min. at 300°F	92	30 min. at 300°F	Good	Solids Content, %	30.5

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

(1) 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 to approx. 1.2 dry mils.

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

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

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. Under the OSHA Hazard Communication Standard, workers must have access to and understand MSDS on all hazardous substances to which they are exposed. Thus, it is important that you provide appropriate training and information to your employees and make sure they have available to them MSDS on any hazardous products in their workplace. Rohm and Haas Company sends MSDS on non-OSHA-hazardous as well as OSHA-hazardous products to its customers upon initial shipment (including samples) of all its products (whether or not they are considered OSHA-hazardous). If you do not have access to one of these MSDS, please contact your local Rohm and Haas representative for an additional copy. Updated MSDS are sent upon revision to all customers of record. MSDS should be obtained from your suppliers of other materials recommended in this bulletin.

Rohm and Haas Company is a member of the American Chemistry Council and is committed to ACC's Responsible Care® Program.

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We recommend that the prospective user determines the suitability of our materials and suggestions before adopting them on a commercial scale.

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For further details, please contact your local Account Manager or local Business Representative.

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