



PARALOID™ B-48N 100% Solid Grade Thermoplastic Acrylic Resin

Description

PARALOID B-48N acrylic resin provides unique adhesion to unprimed, untreated metals as well as excellent toughness, flexibility, and outdoor durability. Its solubility in a number of solvents permits wider formulating latitude.

Solubility

Information about the solvent compatibility of PARALOID B-48N 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	MMA Copolymer
Tg, °C	50
Bulk Density, 25°C, lb/gal	9.6
Solubility Parameter	9.3
Ultimate Hardness of Clear Films, KHN	11 to 12

Properties in White Lacquers¹

Tukon Hardness		Whiteness (K color low numbers best)		Cross Hatch ³	
30 min. at 180°F	8.4	30 min. at 300°F	6.9	30 min. at 180°F	0
30 min. at 300°F	11.6	16 hrs. at 350°F	6.9	30 min. at 300°F	0
Pencil Hardness		Flexibility ² , 1/8, 1/4, 1/2 inch mandrels		Mustard Staining (30 minute exposure)	
30 min. at 180°F	2H	30 min. at 180°F	0, 0, 0	30 min. at 180°F	Trace
30 min. at 300°F	3H	30 min. at 300°F	0, 0, 0	30 min. at 300°F	Trace
Gloss, 20°		Printing, 2 psi for 1 hour at 140°F		Gasoline Resistance (15 minute exposure)	
30 min. at 180°F	47	30 min. at 180°F	Light	30 min. at 180°F	Very Soft
30 min. at 300°F	74	30 min. at 300°F	Trace	30 min. at 300°F	Softens
Gloss, 60°		Knife Adhesion		Spray Conditions	
30 min. at 180°F	84	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	Excellent	Solids Content, %	23.0

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.



Safe Handling Information

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