



PARALOID™ B-44 100%
Solid Grade Thermoplastic Acrylic Resin
Art. 21211

PARALOID B-44 solid grade acrylic resin provides an outstanding combination of hardness, flexibility, and adhesion to various substrates. It also allows greater formulation flexibility in solvents suitable for specific applications. This resin is slightly softer and more flexible than PARALOID A-21 acrylic resin and exhibits excellent adhesion to a variety of surfaces.

PARALOID B-44 acrylic resin can be dissolved in toluene, xylene, selected esters, acetone, and methyl ethyl ketone. PARALOID B-44 is not soluble in most alcohols or aliphatic hydrocarbons when used as the sole solvent. It is well suited for a range of applications, including treated metal, copper, zinc, brass, treated aluminum, concrete floors, and certain plastics.

Solvent Compatibility Information

Information regarding the solvent compatibility of PARALOID B-44 acrylic resin can be found in Rohm and Haas's 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	60
Bulk Density, 25°C, lb/gal	9.8
Solubility Parameter	9.4
Ultimate Hardness of Clear Films, KHN	15 to 16



BRESCIANI

Restorasyon ve Koruma Malzemeleri ve Ekipmanları



TEKNİK VERİ SAYFASI

ver.1/1

Properties in White Lacquers¹

Tukon Hardness		Whiteness (K color low numbers best)		Cross Hatch ³	
30 min. at 180°F	6.5	30 min. at 300°F	7.6	30 min. at 180°F	0
30 min. at 300°F	18.2	16 hrs. at 350°F	9.0	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	2, 2, 1	30 min. at 180°F	None
30 min. at 300°F	5H	30 min. at 300°F	3, 3, 2	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	71	30 min. at 180°F	Moderate	30 min. at 180°F	OK
30 min. at 300°F	78	30 min. at 300°F	Trace	30 min. at 300°F	OK

Gloss, 60°		Knife Adhesion		Spray Conditions	
30 min. at 180°F	92	30 min. at 180°F	Excellent	Viscosity, No. 4 Ford Cup, sec.	15
30 min. at 300°F	93	30 min. at 300°F	Excellent	Solids Content, %	24.0

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.

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.



Professional use only



BRESCIANI

Restorasyon ve Koruma Malzemeleri
ve Ekipmanları



TEKNİK VERİ SAYFASI

ver.1/1

BRESCIANI TR