

**C.T.S. S.R.L.**

Via Piave, 20/22 - 36077 Altavilla Vicentina (VI) - Italy  
 Tel. +39 0444 349088 - Fax +39 0444 349039  
 www.ctseurope.com - cts.italia@ctseurope.com

**SINCERT**

**Milano**  
 Via A.F. Stella, 5 - 20125  
 Tel. +39 02 67493225  
 Fax +39 02 67493233  
 cts.milano@ctseurope.com

**Firenze**  
 Via L. Gordini, 54 - 50127  
 Tel. +39 055 3245014  
 Fax +39 055 3245078  
 cts.firenze@ctseurope.com

**Roma**  
 Via G. Fantoli, 26 - 00148  
 Tel. +39 06 55301779  
 Fax +39 06 55302891  
 cts.roma@ctseurope.com

**Napoli**  
 Via delle Puglie, 228 int.4 - 80143  
 Tel. +39 081 7592971  
 Fax +39 081 7593118  
 cts.napoli@ctseurope.com

**PARALOID® B 82****100% Solid Grade Thermoplastic Acrylic Resin****Description**

PARALOID® B 82 general-purpose, low-cost acrylic resin retains the outstanding characteristics of acrylic resins, such as transparency, durability, flexibility, and resistance characteristics.  
 PARALOID® B 82 acrylic resin is well suited for General Product Finishing where a softer resin is required.

**Typical Properties**

These properties are typical but do not constitute specifications.

Physical Form	Pellets
Chemical Composition	MMA Copolymer
Tg, °C	35
Bulk Density, 25°C, lb/gal	9.7
Solubility Parameter	9.4
Ultimate Hardness of Clear Films, KHN	10 to 11

**Properties in White Lacquers<sup>1</sup>**

<b>Tukon Hardness</b>		<b>Whiteness</b> (K color low numbers best)		<b>Cross Hatch<sup>3</sup></b>	
		30 min. at 180°F	30 min. at 300°F	30 min. at 180°F	
30 min. at 180°F	3.7	30 min. at 300°F	7.7	30 min. at 180°F	0
30 min. at 300°F	12.6	16 hrs. at 350°F	15.5	30 min. at 300°F	0
<b>Pencil Hardness</b>		<b>Flexibility<sup>2</sup>, 1/8, 1/4, 1/2 inch mandrels</b>		<b>Mustard Staining</b> (30 minute exposure)	
		30 min. at 180°F	30 min. at 300°F	30 min. at 180°F	
30 min. at 180°F	H	30 min. at 180°F	1, 1, 1	30 min. at 180°F	Moderate
30 min. at 300°F	H	30 min. at 300°F	4, 4, 3	30 min. at 300°F	Moderate
<b>Gloss, 20°</b>		<b>Printing, 2 psi for 1 hour at 140°F</b>		<b>Gasoline Resistance</b> (15 minute exposure)	
		30 min. at 180°F	30 min. at 300°F	30 min. at 180°F	
30 min. at 180°F	81	30 min. at 180°F	Ex. Heavy	30 min. at 180°F	Wipes Off
30 min. at 300°F	79	30 min. at 300°F	Vr. Heavy	30 min. at 300°F	Wipes Off
<b>Gloss, 60°</b>		<b>Knife Adhesion</b>		<b>Spray Conditions</b>	
		30 min. at 180°F	30 min. at 300°F	Viscosity, No. 4 Ford Cup, sec.	
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, %	27.0

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

<sup>1</sup>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.

<sup>2</sup>The degree of cracking at the bend over each mandrel is rated on a 0 (no failure) to 10 (complete flaking) scale. <sup>3</sup>The degree of flaking at the scribed cross hatch is rated on a 0 (no failure) to 5 (complete lift off) scale.

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Fax +39 055 3245078

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**Roma**

Via G. Fantoli, 26 - 00148

Tel. +39 06 55301779

Fax +39 06 5530891

cts.roma@ctseurope.com

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Information contained in this data sheet is based on our state of knowledge and on laboratory testing at the above-specified date. The User should determine, by preliminary tests, the suitability of the product for his intended purpose, and should observe the laws and regulations regarding health and safety. C.T.S. S.r.l. guarantees the constant quality of the product but is not accountable for any damages caused by the incorrect use of a material. The product is intended **for professional use only**. In addition, the components and packaging can change at any time, without any obligation of prior notice.