



## PARALOID™ A-21LV Thermoplastic Solution Resin

### Description

PARALOID A-21LV resin is a very hard methyl methacrylate polymer with enhanced adhesion properties. It is supplied as a 30% solution in a toluene/MEK/butanol solvent system. The polymer is also available in solid grade form. PARALOID A-21LV resin is similar to PARALOID A-21 in characteristics and uses but because of its solvent system, PARALOID A-21LV possesses better compatibility with cellulose, such as nitrocellulose and cellulose acetate butyrate. PARALOID A-21 LV also will allow a higher solids content at spray viscosity.

PARALOID A-21LV resin is recommended for clear coatings for vinyl and metal; gravure and overprint inks; plastisol primers; barrier and top coats for plastic; and coatings for auto refinishing and aircraft. It has excellent adhesion to primers; is highly durable; and is highly resistant to water, grease, salt spray, and gasoline.

### Typical Physical Properties

These properties are typical but do not constitute specifications.

Solids, Wt. %	30
Solvents	Toluene/MEK/Butanol 50/40/10
Density, 25°C, lb/gal	7.8
Viscosity, 25°C, cP	250 – 440
Flash Point °C	2.2 SFCC
Molecular Weight, Wt. Avg.	120,000
Solubility Parameter	9.4
Tg, °C	105
Ultimate Hardness of Clear Films, KHN	21 – 22
Chemical Composition	MMA polymer

### Safe Handling Information

The Dow Chemical Company 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.

The Dow Chemical Company sends MSDS on non-OSHA-hazardous as well as OSHA-hazardous products to its customers upon initial shipment, including samples. If you do not have access to one of these MSDS, please contact your local Dow representative for a copy.

Updated MSDS are sent upon revision to all customers of record. In addition, MSDS are sent annually to all customers receiving products deemed hazardous under the Superfund Amendments and Reauthorization Act.

MSDS should be obtained from suppliers of other materials recommended in this bulletin.

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

---

PARALOID is a trademark of The Dow Chemical Company.

These suggestions and data are based on information we believe to be reliable. They are offered in good faith, but without guarantee, as conditions and methods of use of our products are beyond our control. We recommend that the prospective user determine the suitability of our materials and suggestions before adopting them on a commercial scale.

Suggestions for uses of our products or the inclusion of descriptive material from patents and the citation of specific patents in this publication should not be understood as recommending the use of our products in violation of any patent or as permission or license to use any patents of The Dow Chemical Company.



©1999-2009 Rohm and Haas is a wholly owned subsidiary of  
The Dow Chemical Company. All rights reserved.

July 1999  
81A356