



PARALOID™ A-646 Thermoplastic Solution Resin

Description

PARALOID A-646 resin is a very hard methyl methacrylate polymer supplied at 45% solids in MEK. PARALOID A-646 is a lower molecular weight analog of PARALOID A-101. The lower Mw of PARALOID A-646 resin allows for higher solids formulations. Coatings based on PARALOID A-646 are also lower in viscosity for higher gloss and better reflow than PARALOID A-101.

PARALOID A-646 resin is recommended for clear coatings for metal and wood, gravure printing inks, and barrier coatings for plastic. It has excellent adhesion to plastic substrates and primer coats, is fast drying, highly durable, and has excellent resistance to water and salt spray.

As with all hard PARALOID thermoplastic resin coatings, the best gloss and adhesion are obtained if films are force dried after application.

Typical Physical Properties

These properties are typical but do not constitute specifications.

Solids, Wt. %	45
Solvents	Methyl Ethyl Ketone
Density, 25°C, lb/gal	8.1
Viscosity, 25°C, cP	1500-3000
Flash Point °C	-6.1 TCC
Molecular Weight, Wt. Avg.	40,000
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.

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