



Product Data Sheet

PARALOID™ B-82 Thermoplastic Solution Resin (51%)

Softer, General Purpose Acrylic Resin

Introduction

PARALOID™ B-82 Thermoplastic Solution Resin (51%) is a softer, general purpose acrylic resin. Films based on PARALOID™ B-82 Thermoplastic Solution Resin (51%) exhibit the water-white color, durability, flexibility and chemical resistance characteristic of acrylic polymers. PARALOID™ B-82 Thermoplastic Solution Resin (51%) is well suited for general product finishing where a softer resin is required. It can be used over metal, plastics, wood and masonry.

PARALOID™ B-82 Thermoplastic Solution Resin (51%) is supplied as a colorless transparent solution at 51% solids in Toluene. A solid grade is also available.

Typical Physical Properties¹

Property	Typical Values
Solids Content, Weight, %	51
Solvent	Toluene
Density, US lbs/gal (25°C)	8.3
Viscosity, cPs (25°C)	4000–7000
Flash Point, °C	4 PMCC
Molecular Weight (Avg.)	120,000
Solubility Parameter	9.4
Tg, °C	35
Ultimate Hardness of Clear Films, KHN	10–11
Chemical Composition	MMA/EA Copolymer

1. These properties are typical but do not constitute specifications.

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.

Safe Handling Information (Cont.)

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 an additional 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 your suppliers of other materials recommended in this bulletin.

Additional safe handling information is available from Dow representatives.

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

Handling Precautions

Before using this product, consult the Material Safety Data Sheet (MSDS)/Safety Data Sheet (SDS) for details on product hazards, recommended handling precautions and product storage.

CAUTION! Keep combustible and/or flammable products and their vapors away from heat, sparks, flames and other sources of ignition including static discharge. Processing or operating at temperatures near or above product flashpoint may pose a fire hazard. Use appropriate grounding and bonding techniques to manage static discharge hazards.

CAUTION! Failure to maintain proper volume level when using immersion heaters can expose tank and solution to excessive heat resulting in a possible combustion hazard, particularly when plastic tanks are used.

Storage

Store products in tightly closed original containers at temperatures recommended on the product label.

Disposal Considerations

Dispose in accordance with all local, state (provincial) and federal regulations. Empty containers may contain hazardous residues. This material and its container must be disposed in a safe and legal manner.

It is the user's responsibility to verify that treatment and disposal procedures comply with local, state (provincial) and federal regulations. Contact your Dow Technical Representative for more information.

Product Stewardship

Dow has a fundamental concern for all who make, distribute, and use its products, and for the environment in which we live. This concern is the basis for our product stewardship philosophy by which we assess the safety, health, and environmental information on our products and then take appropriate steps to protect employee and public health and our environment. The success of our product stewardship program rests with each and every individual involved with Dow products – from the initial concept and research, to manufacture, use, sale, disposal, and recycle of each product.

Customer Notice

Dow strongly encourages its customers to review both their manufacturing processes and their applications of Dow products from the standpoint of human health and environmental quality to ensure that Dow products are not used in ways for which they are not intended or tested. Dow personnel are available to answer your questions and to provide reasonable technical support. Dow product literature, including safety data sheets, should be consulted prior to use of Dow products. Current safety data sheets are available from Dow.

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