



Advanced Materials

ARALDITE® AY 8683 Resin Hardener HY 8683

POLYUREA ELASTOMERIC ADHESIVE

Description

ARALDITE® AY 8683 Resin/Hardener HY 8683 hardener polyurea elastomeric adhesive is a two-component system formulated for filter-bonding applications. The polyurea elastomer has a quick set time and can be conveniently mixed by hand or via meter-mix equipment. It cures at room temperature.

Applications

Filter bonding

Advantages

Tough and resilient Easily dispensable Fast setting





Typical Properties	Property Color/appearance Specific Gravity Viscosity, cP @ 77°F (25°C)	Test Method Visual ASTM D-792 ASTM D-2393	Test Val Resin Milky White 1.03 8,000 – 12,000	Hardener Blue Liquid 1.03 60 - 90	
Typical Mixed Properties	Property Reaction Ratio (by weight) Reaction Ratio (by volume)	Test Method	100F	<u>Test Values⁽¹⁾</u> 100R/60H 100R/60H	
	Pot Life, minutes @ 77°F (25°C), 90 gram mass Mixed viscosity, cP @ 77°F (25°C)	ASTM D-2471 ASTM D-2393	15 2,50	0 – 3,000	
¹ Tested @ 77°F (25°C)	(== =)				
Recommended Cure Schedule	<u>Temperature</u>	Minimum Cure Time			
	77°F (25°C)	24 hours			

Typical Cured Properties (Not for specification purposes)

Cured for 7 days @ 77°F (25°C)

	Test Method	Test Values ⁽¹⁾
Hardness, Shore A	ASTM D-2240	95 <u>+</u> 5
Tensile Strength*, psi.(MPa)	ASTM D-638	3,500 (24.1)
Ultimate Elongation*, %	ASTM D-638	475
Tear Strength*, ppi` (N/mm)	ASTM D-624	375 (65.6)
Floating Roller Peel, pli (N/mm)	ASTM D3167-03a	
- , , ,		100 (17.5)
* © 00: (F0) :		

^{* @ 20} in. (50 cm) per min.

Tested @ 77°F(25°C) unless otherwise noted⁽¹⁾

NOTE

The test data and results set forth herein are based on laboratory work and/or field testing and does not necessarily indicate results that the buyer or user will attain. Full-scale testing and product performance are the responsibility of the buyer and user.





Storage

ARALDITE[®] AY 8683 Resin/Hardener HY 8683 hardener polyurea elastomeric adhesive components should be stored in a dry place, in the sealed original container, at temperatures between +2°C and +40°C (+36°F and 104°F). Under these storage conditions, the shelf life is 2 years. The product should not be exposed to direct sunlight.

Keep containers closed to prevent moisture absorption and contamination. These products are moisture sensitive and packaged under a blanket of dry nitrogen. If a container is opened, re-blanket with dry nitrogen and then tightly reseal.

If stored below $60^{\circ}F$, the adhesive should be brought to $60^{\circ}F - 77^{\circ}F$ and conditioned at this temperature for some time prior to use.

Precautionary Statement

Huntsman Advanced Materials Americas LLC maintains up—to-date Material Safety Data Sheets (MSDS) on all of its products. These sheets contain pertinent information that you may need to protect your employees and customers against any known health or safety hazards associated with our products. Users should review the latest MSDS to determine possible health hazards and appropriate precautions to implement prior to using this material.

First Aid!

Refer to MSDS as mentioned above.

KEEP OUT OF REACH OF CHILDREN
FOR PROFESSIONAL AND INDUSTRIAL USE ONLY





IMPORTANT LEGAL NOTICE

Sales of the product described herein ("Product") are subject to the general terms and conditions of sale of either Huntsman Advanced Materials LLC, or its appropriate affiliate including without limitation Huntsman Advanced Materials (Europe) BVBA, Huntsman Advanced Materials Americas Inc., or Huntsman Advanced Materials (Hong Kong) Ltd. ("Huntsman"). The following supercedes Buyer's documents.

Huntsman warrants that at the time and place of delivery all Products sold to Buyer shall conform to the specifications provided to Buyer by Huntsman.

While the information and recommendations included in this publication are, to the best of Huntsman's knowledge, accurate as of the date of publication, NOTHING CONTAINED HEREIN (EXCEPT AS SET FORTH ABOVE REGARDING CONFORMANCE WITH SPECIFICATIONS PROVIDED TO BUYER BY HUNTSMAN) IS TO BE CONSTRUED AS A REPRESENTATION OR WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, NONINFRINGEMENT OF ANY INTELLECTUAL PROPERTY RIGHTS, OR WARRANTIES AS TO QUALITY OR CORRESPONDENCE WITH PRIOR DESCRIPTION OR SAMPLE, AND THE BUYER ASSUMES ALL RISK AND LIABILITY WHATSOEVER RESULTING FROM THE USE OF SUCH PRODUCT, WHETHER USED SINGLY OR IN COMBINATION WITH OTHER SUBSTANCES.

No statements or recommendations made herein are to be construed as a representation about the suitability of any Product for the particular application of Buyer or user or as an inducement to infringe any patent or other intellectual property right. Buyer is responsible to determine the applicability of such information and recommendations and the suitability of any Product for its own particular purpose, and to ensure that its intended use of the Product does not infringe any intellectual property rights.

The Product may be or become hazardous. The Buyer should obtain Material Safety Data Sheets and Technical Data Sheets from Huntsman containing detailed information on Product hazards and toxicity, together with proper shipping, handling and storage procedures for the Product, and should comply with all applicable governmental laws, regulations and standards relating to the handling, use, storage, distribution and disposal of, and exposure to the Product. Buyer shall also take all steps necessary to adequately inform, warn and familiarize its employees, agents, direct and indirect customers and contractors who may handle or be exposed to the Product of all hazards pertaining to and proper procedures for safe handling, use, storage, transportation and disposal of and exposure to the Product, and the containers or equipment in which the Product may be handled, shipped or stored.

Main Offices:
Huntsman Corporation
10003 Woodloch Forest Dr.
The Woodlands
Texas 77380 (281) 719-6000
Huntsman Advanced Technology
Center
8600 Gosling Rd.
The Woodlands
Texas 77381
(281) 719-7400

© 2006 Huntsman Advanced Materials Americas Inc.

Araldite is a registered trademark of Huntsman Corporation or an affiliate thereof in one or more, but not all, countries.