

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	Test Method	Test Values ⁽¹⁾	
			Resin	Hardener
	Color/appearance	Visual	Milky White	Blue Liquid
	Specific Gravity	ASTM D-792	1.03	1.03
	Viscosity, cP @ 77°F (25°C)	ASTM D-2393	8,000 – 12,000	60 - 90

Typical Mixed Properties	Property	Test Method	Test Values ⁽¹⁾	
			Resin	Hardener
	Reaction Ratio (by weight)		100R/60H	
	Reaction Ratio (by volume)		100R/60H	
	Pot Life, minutes @ 77°F (25°C), 90 gram mass	ASTM D-2471	15	
	Mixed viscosity, cP @ 77°F (25°C)	ASTM D-2393	2,500 – 3,000	

¹Tested @ 77°F (25°C)

Recommended Cure Schedule	Temperature	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 ± 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)

* @ 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 and Shelf Life

ARALDITE polyurethane adhesive components should be stored in their original, sealed containers at room temperature. 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.

When stored at temperatures from 59-77°F (15-25°C), ARALDITE 8683 resin and hardener will remain in useable condition for 24 months from date of shipping from Huntsman.

Caution:

Huntsman Advanced Materials Americas Inc. 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. Copies of the latest MSDS may be requested by calling our customer service group at 888-564-9318 or emailing your request to adhesives@huntsman.com.

First Aid!

Eyes and skin: Flush eyes with water for 15 minutes. Contact a physician if irritation persists. Wash skin thoroughly with soap and water. Remove and wash contaminated clothing before reuse.

Inhalation: Remove subject to fresh air.

Swallowing: Dilute by giving water to drink and contact a physician promptly. Never give anything to drink to an unconscious person.

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

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