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ARALDITE[®] 2042 A/B (AW 8680 Resin/Hardener HW 5542)

HUNTSMAN hemical™ ncepts Our expertise is your solution. chemical-concepts.com 800.220.1966

410 Pike Road • Huntingdon Valley, PA 19006

RAPID, HIGH-STRENGTH POLYURETHANE ADHESIVE

Customer Service Faxline: 517.351.6255

Technical Inquiries: 800.817.8260

DESCRIPTION: * Metton is a registered to the second s	Araldite 2042 A/B polyurethane adhesive is a two-part, rapid-curing system that is specifically formulated for bonding plastics bonding including polycarbonate, ABS, nylon, and Metton ^{®*} with minimal substrate preparation. Araldite 2042 A/B polyurethane adhesive has also been used successfully for bonding materials with differing CTEs, e.g., nylon to stainless steel. Once cured, it features good environmental stability and impact resistance. rademark of Metton America, Inc.
APPLICATIONS:	 Polycarbonate ABS Nylon Metton Vulcanized rubber Primed metals
ADVANTAGES:	 Excellent flexibility Convenient mix ratio Bonds a wide variety of materials Rapid cure time

TYPICAL			Test V	′alues ⁽¹⁾	
PROPERTIES:	Color/appearance Visua	N D-792	Resin White viscous liquid 1.10 50,000	<u>Hardener</u>	
TYPICAL MIXED PROPERTIES:	<u>Property</u> Reaction Ratio (by weight) Reaction Ratio (by volume)	<u>Test Me</u>	thod	<u>Test Values⁽¹⁾</u> 80R/100H 100R/100H	
	Pot Life, minutes @ 77°F	ASTM D	-2471	3	
	(25°C), 4 fl. oz. mass Mixed viscosity (cP) @ 77°F (25°C)	ASTM D	-2393	50,000	
	¹ Tested @ 77°F (25°C)				
RECOMMENDED CURE SCHEDULES:	<u>Temperature</u> 77⊊ (25℃) 140⊊ (60℃) 212⊊ (100℃)	Handling 1 hour 30 minut 5 minute	6 es 60	inimum Cure Time hours) minutes) minutes	
TYPICAL CURED PROPERTIES:	Application of Adhesive				
	The resin/hardener mix is applied with a spatula to the pretreated and dry joint surfaces.				
	A layer of adhesive 0.002 to 0.004-inches (0.05 to 0.10-mm) thick will normally impart the greatest lap shear strength to a joint.				
	The joint components should be assembled and clamped as soon as the adhesive has been applied. Even contact throughout ensures proper cure.				
	Standard Test Specimens Unless otherwise stated, the figures given below were all determined by testing standard specimens made up by lap-jointing 4-inch x 1-inch x 0.06-inch (10-cm x 2.5-cm x 1.5-mm) strips of aluminum. The joint area was 0.5 inch x 1 inch (12.5 mm x 2.5 cm) in each case.				

Tel: 86-755-28168941 Fax: 86-755-22648848

<u>Property</u> Lap Shear Strength, psi (MPa) <i>Tested on Various Substrates</i> (Cured 20 min @ 212°F (100°C)	Test Method ASTM D-1002	<u>Test Values (1)</u>
Substrate		

Aluminum Metton

1450 (10) 800 (5.5)

	Test Method	
Hardness, Shore A	ASTM D-2240	85
Ultimate Tensile Strength, psi (MPa)	ASTM D-638	2100 (14.5)
Elongation, %	ASTM D-638	250
Tg per DMA, °F (°C)	ASTM D-4065	86 (30)
Coefficient of Thermal Expansion (in/in/°C)	ASTM E-831	13.5 X 10 ^{-5 (2)} 23.0 X 10 ^{-5 (3)}

¹Tested @ 77°F (25°C) ²Below Tg ³Above Tg

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 <u>prior to</u> using this material. Copies of the latest MSDS may be requested by calling our customer service group at 800-367-8793 or emailing your request to adhesives group@huntsman.com.

FIRST AID!

<u>Eyes and skin:</u> 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.

<u>Swallowing:</u> 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

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