

Advanced Materials**Uralane[®] 5773-A/B****POLYURETHANE ADHESIVES**

- High Strength
- Tough, Heat Resistant

DESCRIPTION

Uralane[®] 5773-A/B polyurethane adhesive is a two-part system which maintains high bond strength through 250°F (121°C). The adhesive forms tough, heat-resistant bonds between various metal substrates and other materials especially where different thermal expansion coefficients prevail.

TYPICAL PROPERTIES AS RECEIVED

<u>Property</u>	<u>5773-A Resin</u>	<u>5773-B Hardener</u>	<u>5773-A/B System</u>	<u>Test Method</u>
Color	Amber	Dk. Amber	Dk. Amber	Visual
Density, g/cc.	1.05	1.30	1.25	ASTM-D-792
Viscosity, cP @ 77°F (25°C)	13,000	Semi-Paste	Semi-Paste	ASTM-D-2196
Gel time 50 gms at 77°F (25°C), minutes	--	--	25-45	ASTM-D-2471
Shelf life* at 77°F (25°C), unopened, months	6	12	--	--

* See storage and handling information on page two.

MIX RATIO

To 100 parts by weight of Uralane 5773-A resin, add 42 parts by weight of Uralane 5773-B hardener. Mix both components thoroughly for several minutes to assure complete blending. Avoid air entrapment while mixing.

CURE SCHEDULE

Gel at 77°F (25°C), plus 16 hours at 150°F (66°C) or 5-7 days at 75°F (23°C).

TYPICAL CURED PROPERTIES (Not for specification purposes)

Test		Result	Test Method		
Tensile lap shear, AL/AL, psi (MPa)	at -67°F (-55°C)	3000 (20.6)	ASTM-D-1002		
	at 77°F (25°C)	2500 (17.2)	--		
	at 250°F (121°C)	900 (6.2)	--		
T-peel, aluminum, pli (N/mm) at 77°F (25°C)		35 (6.1)	ASTM-D-1876		
Durometer hardness, Shore D		50	ASTM-D-2240		
After 30 days at 145°F (63°C)/95% RH:					
Tensile lap shear, AL/AL, psi (MPa)	at 77°F (25°C)	2500 (17.2)	ASTM-D-1002		
	at 250°F (121°C)	700 (4.8)	--		
T-peel strength AL/AL, pli (N/mm)	at 77°F (25°C)	35 (6.1)	ASTM-D-1876		
Durometer hardness, Shore D		50	ASTM-D-2240		
After Thermal Aging Exposure:					
Tensile lap shear, AL/AL, psi (MPa)	<u>Initial</u>	<u>100HRS.</u>	<u>500HRS.</u>	<u>1000HRS.</u>	
	@ -65°F (-55°C)	5500 (37.9)	6500 (44.8)	6400 (44.1)	5500 (37.9)
	@ 77°F (25°C)	2800 (19.3)	3200 (22)	2800 (19.3)	3000 (20.6)
T-peel, pli (N/mm) @ 77°F (25°C)	@ 250°F (121°C)	950 (6.5)	1000 (6.9)	1000 (6.9)	950 (6.5)
		60 (10.5)	90 (15.7)	90 (15.7)	80 (14)

STORAGE :

Uralane[®] 5773-A/B should be stored in a dry place, in the sealed original container, at temperatures between +2°C and +40°C (+35.6°F and 104°F). These products should not be exposed to direct sunlight. Under these storage conditions, and when supplied under Huntsman standard certification, these products have a shelf life of 6 months (expiration date may differ based on customer specification).

These products are moisture sensitive and are packaged under a blanket of dry nitrogen. Material temperatures should be above 18°C (65°F) when mixing. After opening a container, re-blanket with dry nitrogen and then tightly reseal.

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**

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