

Product Data

URALANE® 5777-A/B POLYURETHANE ADHESIVE

- Fast Setting
- Bonds to Thermoplastics & Metals

DESCRIPTION

Uralane 5777-A/B polyurethane adhesive is a two-component system designed for automatic dispensing. It features a rapid set time for fast production cycles. After mixing, liquid Uralane 5777-A resin and Uralane 5777-B hardener form a non-flow, soft paste. Uralane 5777-A/B polyurethane adhesive bonds well to many types of thermoplastics and is especially suited for bonding aircraft interior components because of its flame resistant properties.

TYPICAL PROPERTIES AS RECEIVED

<u>Property</u>	<u>5777-A</u>	<u>5777-B</u>	<u>5777-A/B</u>	<u>Test Method</u>
Color	Off-white	Beige	Beige	Visual
Density, g/cc.	1.1±.05	1.3±.05	1.20	ASTM-D-792
Viscosity, cP @ 77°F (25°C)	34,000	semi-paste	semi-paste	ASTM-D-2196
Gel time, 100 gms @ 77°F (25°C), minutes	--	--	10-12	ASTM-D-2471
Shelf life* at 77°F (25°C), unopened, months	6	6	--	--

* Urethanes are sensitive to moisture - optimum shelf life is obtained by avoiding humidity and moisture.

MIX RATIO

To 100 parts by weight Uralane 5777A resin add 55 parts by weight Uralane 5777B hardener, or 2 to 1 parts by volume. Mix both components thoroughly for 2-3 minutes and apply immediately because of short work life. This product is recommended for automatic mix and dispense equipment.

CURE SCHEDULE

24-48 hours at 77°F (25°C), or gel at room temperature plus 2-4 hours at 150°F (66°C).

TYPICAL CURED PROPERTIES (Not for specification purposes)

<u>Test</u>	<u>Result</u>				<u>Test Method</u>
T-Peel Strength, pli (N/mm), AL/AL	36 (6.3)				ASTM-D-1876
Lexan/Lexan®*	21 (3.7)				
Ultem/Ultem®**	11 (1.9)				
Tensile Lap Shear, °F (°C), psi (MPa)	<u>-40 (-40)</u>	<u>77 (25)</u>	<u>180 (83)</u>	<u>120 (48)/95% RH</u>	ASTM D-1002
AL/AL (etched)	4400 (30.3)	2200 (15.2)	1000 (6.9)	2000 (13.8)	
Lexan/Lexan	1900 (13.1)	1150 (7.9)	690 (4.7)	1550 (10.3)	
Declar/Declar	1450 (10)	560 (3.8)	500 (3.4)	1150 (7.9)	
ABS/ABS	650 (4.5)	750 (5.2)	270 (1.8)	900 (6.2)	
PEEK/PEEK	550 (3.8)	700 (4.8)	550 (3.8)	1000 (6.9)	
Tensile strength, psi (MPa)	1300 (8.9)				ASTM-D-412
Elongation, %	170				ASTM-D-412
Durometer Hardness, Shore D	65				ASTM-D-2240
Flammability, 60 sec. vertical ignition					
self-extinguishing time	0 seconds				
burn length	< 7 inches				
drip extinguish	< 1 second				

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 800-367-8793 or emailing your request to adhesives_group@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

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