

**Advanced Materials****Uralane<sup>®</sup> 5779 Products****POLYURETHANE ADHESIVE**

- Caulking Compounds
- Easy to Use 1:1 Ratio
- Environmental Stability Under UV Light & Humidity

**DESCRIPTION**

Uralane<sup>®</sup> 5779-A/B polyurethane adhesive and other Uralane 5779 polyurethane adhesives are two-component systems which bond well to both plastic and metal substrates. The polyurethane adhesives have a non-flow paste consistency and can be used as sealants or caulking compounds. Uralane 5779 Products are available in several colors\* and are qualified to BMS-5-105, Type 6I.

**TYPICAL PROPERTIES AS RECEIVED**

<u>Property</u>	<u>5779-A Resin</u>	<u>5779-B* Hardener</u>	<u>5779-A/B System</u>	<u>Test Method</u>
Color	Light blue	White	White	Visual
Density, g/cc	1.43	1.40	1.42	ASTM-D-792
Viscosity, cP @ 77°F (25°C)	45,000	152,000	Non-flow Paste	ASTM-D-2196
Gel time, 100 gms at 77°F (25°C), minutes	--	--	8-15	ASTM-D-2471
Shelf life <sup>+</sup> at 77°F (25°C), unopened, months	6	6	--	--
* Also available:	Beige Pepper dust (gray)		-- Uralane 5779A80/B -- Uralane 5779-A40/B	

<sup>+</sup> See storage and handling information on page two.

**MIX RATIO**

To 100 parts by weight of Uralane 5779-A resin, add 98 parts by weight of Uralane 5779-B hardener or 1:1 parts by volume. Mix both components thoroughly for 2-3 minutes to ensure complete blending. Product is also supplied in dual-barrel cartridges with mixing nozzles. Mix ratio is the same for all color versions of this product.

**Note:** Urethane products are sensitive to humid environment. DO NOT REFRIGERATE. Store in warm, dry place for maximum shelf life.

**CURE SCHEDULE**

Seven days at 75°F (23°C) or three hours at room temperature plus four hours at 150°F (66°C).

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**TYPICAL CURED PROPERTIES** (Not for specification purposes)

<u>Test</u>	<u>Result</u>	<u>Test Method</u>
Tensile lap shear, AL/AL, at 77°F (25°C), psi (MPa)	1200 (8.3)	ASTM-D-1002
T-peel, AL/AL, at 77°F (25°C), pli (N/mm)	10 (1.75)	ASTM-D-1876
Tensile lap shear, polycarbonate, at 77°F (25°C), psi (MPa)	700 (4.8)	ASTM-D-1002
T-peel, polycarbonate, at 77°F (25°C), pli (N/mm)	10 (1.75)	ASTM-D-1876
Durometer Hardness, Shore D	52	ASTM-D-2240
Flammability, 60 second ignition, vertical		
Self-extinguish time, seconds	< 2	
Burn length, inches	< 8	
Drip self-extinguishing time, seconds	< 1	

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**STORAGE :**

Uralane<sup>®</sup> 5779-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.

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**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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