

Advanced Materials**Uralane[®] 5754-A/B****POLYURETHANE ADHESIVE**

- Bonds to Metals and Plastics
- Good Peel Strength

DESCRIPTION

Uralane[®] 5754-A/B polyurethane adhesive is a two-part system that is designed for bonding thermoplastics such as polycarbonate, polysulfone and acrylic without sanding or other surface preparation. Uralane 5754-A/B polyurethane adhesive also bonds well to fiberglass, aluminum, ABS, glass and stainless steel. Bonded joints offer good optical clarity. The polyurethane adhesive is suitable for bonding plastics (metal or combinations thereof) for interior aircraft assemblies, signs, computers and optical devices.

TYPICAL PROPERTIES AS RECEIVED

<u>Property</u>	<u>5754-A Resin</u>	<u>5754-B Hardener</u>	<u>5754-A/B System</u>	<u>Test Method</u>
Color	Clear	Amber	Clear	Visual
Density, g/cc	1.15	1.08	1.13	ASTM-D-792
Viscosity, cP @ 77°F (25°C)	13,000	1,000	6,000	ASTM-D-2393
Flash point, COC, °F (°C)	>250	>200	--	ASTM-D-92
Work life, 100 gms at 77°F (25°C), minutes	--	--	12-18	ASTM-D-1338
Shelf life ⁺ at 77°F (25°C), unopened, months	6	6	--	FTM-204

⁺ See storage and handling information on page two.

MIX RATIO

To 100 parts by weight of Uralane 5754-A resin, add 50 parts by weight of Uralane 5754-B hardener. Mix both components thoroughly for 2-3 minutes to insure uniform blending. Uralane 5754-A resin may crystallize at low temperatures. Reliquify by heating gently at 150°F (66°C). Cool before mixing. Degas by vacuum after mixing or use heat gun on glue line to aid bubble release. Uralane 5754-A resin is moisture sensitive prior to mixing. Partially used cans should be flushed dry with dry nitrogen to avoid reaction with moisture in the air.

CURE SCHEDULE

8 days at room temperature at 77°F (25°C), or 2 hours at 150°F (66°C) for full properties.

TYPICAL CURED PROPERTIES (Not for specification purposes)

Test	Result	Test Method
Maximum service temperature, °F (°C)	180 (83)	ASTM-D-648
Tensile lap shear, psi (MPa)		
aluminum to aluminum at -67°F (-55°C)	5900 (40.6)	ASTM-D-1002
at 77°F (25°C)	600 (4.1)	
at 180°F (83°C)	175 (1.2)	
polycarbonate to polycarbonate		
at 77°F (25°C)	650 (4.5)	
180° T-peel, aluminum, ppi	30	ASTM-D-1876
Tensile strength, psi (MPa)	3000 (20.7)	ASTM-D-412
Durometer hardness, A	85	ASTM-D-2240
Elongation, %	360	ASTM-D-412

STORAGE :

Uralane[®] 5754-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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Main Offices :
Huntsman Corporation
10003 Woodloch Forest Dr.
The Woodlands
Texas 77380
(281) 719-6000

**Huntsman Advanced Technology
Center**
8600 Gosling Rd.
The Woodlands
Texas 77381
(281) 719-7400