

Product Data

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

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)

<u>Test</u>	<u>Result</u>	<u>Test Method</u>
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)	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

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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