

Advanced Materials**Uralane[®] 5776 A/B Polyurethane Adhesive**

- **100% Solids**
- **High Peel Strength**

DESCRIPTION

Uralane[®] 5776 A/B polyurethane adhesive is a two-part system designed for bonding metals and aluminum as well as plastic substrates including phenolics, epoxies, polyesters and many thermoplastics. Uralane[®] 5776 A/B polyurethane adhesive has a semi-paste consistency for easy handling and spreading. The adhesive's long work life facilitates assembly of large parts. Bonded assemblies can be cured at room temperature in 5-7 days or accelerated with heat cure and, once cured, exhibit high peel strength.

TYPICAL PROPERTIES AS RECEIVED

Property	Test Method	5776 A	5776 B	Mixed System
Color	Visual	Amber clear	Olive/tan	Olive/tan
Density, g/cc.	ASTM D792	1.0	1.15	1.10
Viscosity, cP at 77°F (25°C)	ASTM D2196	4,000	Paste	Semi-paste
Gel time 100 gms at 77°F (25°C), minutes	ASTM D2471	--	--	35-45

MIX RATIO

To 100 parts by weight of Uralane[®] 5776 A resin, add 40 parts by weight of Uralane[®] 5776 B hardener. Mix both components thoroughly for several minutes to insure complete and uniform mixing.

CURE SCHEDULES

1. 5-7 days at 77°F (25°C) ± 2°F
2. 2 hours at room temperature plus 4 hours at 150°F (66°C)
3. 2 hours at room temperature plus 1-1/2 hours at 200°F (93°C)

TYPICAL CURED PROPERTIES (Not for specification purposes)

Test	Test Method	Result
Tensile lap shear, psi (MPa) Al-Al at -67°F (-55°C) at 77°F (25°C) at 180°F (83°C) after 7 days immersion in water at 77°F (25°C)	ASTM D1002	3500 (24.1) 2300 (15.9) 550 (3.8) 800 (5.5)
Ultem-Ultem® (Polyetherimide)		640 (4.4)
T-peel, Al-Al pli (N/mm) at 77°F (25°C) at 77°F (25°C), after 7 days immersion in water	ASTM D1876	28 (4.9) 34 (5.9)
Durometer hardness, Shore A	ASTM D2240	70
Tensile strength, psi (MPa)	ASTM D412	1000 (6.9)
Elongation, %	ASTM D412	700
Tear Strength, ppi (N/mm)	ASTM D624	250 (43.7)

STORAGE

Uralane® 5776 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 from date of shipment (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 USE ONLY.

Distributed by
 Freeman Manufacturing & Supply Co.
 www.freemansupply.com (800) 321-8511



IMPORTANT LEGAL NOTICE

Sales of the product described herein ("Product") are subject to the general terms and conditions of sale of either Huntsman Advanced Materials LLC, or its appropriate affiliate including without limitation Huntsman Advanced Materials (Europe) BVBA, Huntsman Advanced Materials Americas Inc., or Huntsman Advanced Materials (Hong Kong) Ltd. ("Huntsman"). The following supercedes Buyer's documents.

Huntsman warrants that at the time and place of delivery all Products sold to Buyer shall conform to the specifications provided to Buyer by Huntsman.

While the information and recommendations included in this publication are, to the best of Huntsman's knowledge, accurate as of the date of publication, NOTHING CONTAINED HEREIN (EXCEPT AS SET FORTH ABOVE REGARDING CONFORMANCE WITH SPECIFICATIONS PROVIDED TO BUYER BY HUNTSMAN) IS TO BE CONSTRUED AS A REPRESENTATION OR WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, NONINFRINGEMENT OF ANY INTELLECTUAL PROPERTY RIGHTS, OR WARRANTIES AS TO QUALITY OR CORRESPONDENCE WITH PRIOR DESCRIPTION OR SAMPLE, AND THE BUYER ASSUMES ALL RISK AND LIABILITY WHATSOEVER RESULTING FROM THE USE OF SUCH PRODUCT, WHETHER USED SINGLY OR IN COMBINATION WITH OTHER SUBSTANCES.

No statements or recommendations made herein are to be construed as a representation about the suitability of any Product for the particular application of Buyer or user or as an inducement to infringe any patent or other intellectual property right. Buyer is responsible to determine the applicability of such information and recommendations and the suitability of any Product for its own particular purpose, and to ensure that its intended use of the Product does not infringe any intellectual property rights.

The Product may be or become hazardous. The Buyer should obtain Material Safety Data Sheets and Technical Data Sheets from Huntsman containing detailed information on Product hazards and toxicity, together with proper shipping, handling and storage procedures for the Product, and should comply with all applicable governmental laws, regulations and standards relating to the handling, use, storage, distribution and disposal of, and exposure to the Product. Buyer shall also take all steps necessary to adequately inform, warn and familiarize its employees, agents, direct and indirect customers and contractors who may handle or be exposed to the Product of all hazards pertaining to and proper procedures for safe handling, use, storage, transportation and disposal of and exposure to the Product, and the containers or equipment in which the Product may be handled, shipped or stored.

Uralane is a registered trademark of Huntsman LLC or an affiliate thereof in one or more countries, but not all countries.

© 2015 Huntsman Advanced Materials Americas Inc.

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

Distributed by
Freeman Manufacturing & Supply Co.
www.freemansupply.com (800) 321-8511

