

Uralane[®] 5772 A/B Polyurethane Adhesive

Product Description

Uralane[®] 5772 A/B polyurethane adhesive is a two-part system which cures at room temperature in 5-7 days or with heat for a shorter cure time. The polyurethane adhesive forms tough, heat-resistant bonds between various metal substrates and other materials especially where different thermal expansion coefficients prevail.

Features

- High shear strength
- High peel strength

Typical Properties*

Property	Test Method	5772 A	5772 B	Mixed System
Appearance	Visual	Amber	Dark amber	Dark amber
Density, g/cm ³	ASTM D792	1.05	1.25	1.20
Viscosity at 25°C, cP	ASTM D2393	16,000	Semi-Paste	Semi-Paste

*Typical properties are based on Huntsman's test methods. Copies are available upon request.

Processing

Mix Ratio

Product	Parts by weight
Uralane [®] 5772 A Resin	100
Uralane [®] 5772 B Hardener	23

Mix both components thoroughly for several minutes to insure uniform blending. Material temperatures should be above 18°C when mixing. Avoid air entrapment while mixing.

Processing Data

Parameter	Value
Gel time, 100 g at 77°F (25°C), min	15 - 20
Typical cure cycles	Gel at 25°C + 16 hours at 66°C or
	7 days at 23°C

Typical Physical Properties

Unless otherwise stated, the data were determined with typical production batches using standard test methods. They are typical values only, and do not constitute a product specification.

Property	Test Method	Value
Tensile lap shear, Al-Al, psi (MPa) Unconditioned at -67°F (-55°C) at 77°F (25°C) at 250°F (121°C) After 30 days at 63°C /95% RH at -67°F (-55°C) at 250°F (121°C)	ASTM D1002	3,000 (20.7) 2,100 (14.5) 650 (4.5) 1,400 (9.6) 600 (4.1)
T-peel, aluminum, pli (N/mm) Unconditioned After 30 days at 63°C /95% RH, at 77°F (25°C)	ASTM D1876	50 (8.7) 50 (8.7)
Durometer hardness, Shore D Unconditioned After 30 days at 63°C /95% RH	ASTM D2240	50 50

Tested after Thermal Aging Exposure

Property	Initial	100 hours	500 hours	1,000 hours
Tensile lap shear, Al-Al, psi (MPa) at -67°F (-55°C) at 77°F (25°C) at 250°F (121°C)	4,100 (28.3) 2,100 (14.5) 800 (5.5)	4,200 (28.9) 2,600 (17.9) 900 (6.2)	4,650 (32) 2,600 (17.9) 950 (6.5)	4,000 (27.5) 2,300 (15.8) 800 (5.5)
T-peel, Aluminum, pli (N/mm) at 77°F (25°C)	55 (9.6)	130 (22.7)	120 (21)	100 (17.5)

Storage

Uralane® 5772 A/B should be stored in a dry place, in the original sealed container at temperatures between 2°C and 40°C (36°F and 104°F). Under these storage conditions, and when supplied under Huntsman standard certification, the product has a shelf-life of **6 months** from date of shipment (expiration date may differ based on customer specification). The product should not be exposed to direct sunlight.

These products are moisture sensitive and are packaged under a blanket of dry nitrogen. After opening a container, re-blanket with dry nitrogen and then tightly reseal.

Precautionary Statement

Huntsman Advanced Materials Americas LLC maintains up-to-date Safety Data Sheets (SDS) 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 SDS as mentioned above.

KEEP OUT OF REACH OF CHILDREN

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