

TDR 1100-11 Epoxy Adhesive

Product Description

TDR 1100-11 epoxy adhesive is a thixotropic system formulated for bonding glass laminate, wood and plastic components used in the construction of archery bows. Its convenient 2:1 by volume mixing ratio facilitates use of TDR 1100-11 epoxy adhesive with automated metering equipment. TDR 1100-11 has a long (>90 minutes) pot life, cures quickly at temperatures above 170°F (77°C) and produces a clear bond line.

Features

- Archery Bow Adhesive
- Thixotropic
- 2:1 mix ratio by volume
- Long pot life
- Cures quickly above 170°F

Typical Properties*

Property	Test Method	TDR 1100-11 Resin	TDR 1100-11 Hardener	Mixed System
Appearance	Visual	Creamy liquid	Amber liquid	--
Density, g/cm ³	ASTM D792	1.16	0.99	--
Viscosity, cP	ASTM D2393	16,500	38,000	13,000
Pot life, 4 fl oz, min	ASTM D2471	--	--	95

*Properties are based on Huntsman test methods. Copies are available upon request

Processing

Mix Ratio

Product	Parts by weight	Parts by volume
Resin	100	100
Hardener	42	50

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. Properties were tested on 2024T3 alclad aluminum etched per ASTM D-2651 at 77°F (25°C).

Property	Cure 1: 15 min at 180°F (82°C)	Cure 2: 15 min at 215°F (102°C)
Heat deflection temperature, °F (°C)	164 (73)	192 (89)
Ultimate strength, psi (MPa)	9,100 (62.7)	8,900 (61.3)
0.2% offset, psi (MPa)	5,800 (40)	6,000 (41.3)
Elongation at break, %	3.6	4.6
Modulus of Elasticity, psi (MPa)	396,000 (2,731)	342,000 (2,359)
Lap shear strength, psi (MPa) at 77°F (25°C) at 160°F (71°C) at 190°F (88°C)	3,520 (24.3) 3,000 (20.7) 1,900 (13.1)	4,100 (28.3) >3,300 (22.7) 3,200 (22)

Storage

TDR 1100-11 Adhesive should be stored in a dry place, in the original sealed containers, at temperatures between 2°C and 40°C (36°F and 104°F). Under these storage conditions, the product has a shelf life of **3 years** (from date of manufacture). The product should not be exposed to direct sunlight.

If stored below 60°F, the adhesive should be brought to 60°F - 77°F and conditioned at this temperature for some time prior to use.

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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