

DYMAX ADHESIVE 628-T PHENOLIC & FILLED PLASTICS TO GLASS & METAL

DESCRIPTION

Dymax 628-T is a high tensile strength material that is especially well suited for bridge bonding. It forms hard, smooth, translucent bonds to glass, metal, phenolic, filled Nylon, ferrite, ceramic and other materials. 628-T can be cured with either UV or visible light, heat or activator.

TYPICAL UNCURED PROPERTIES

Solvent Content None -	100% reactive solids
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Chemical Class

Appearance

Flash Point

Urethane Acrylate
Clear/Straw Liquid
>93°C (200°F)

Solubility Alcohols/Chlorinated Solvents/Ketones

Toxicity Low

Viscosity 4,000 cP (nominal) ASTM D-2556

TYPICAL CURED PROPERTIES

PHYSICAL

Durometer Hardness	D75	ASTM D-2240
Elongation at Break	30%	ASTM D-638
Tensile at Break	3,000 psi (29.6 N/mm ²)	ASTM D-638
Water Absorption (24 h)	2.8%	ASTM D-570
Linear Shrinkage	3%	*DSTM D-101

^{*}DSTM refers to Dymax Standard Test Method

THERMAL

Coefficient of Linear Thermal Expansion	90 x 10 [™] in/in/°C	ASTM D-696
Thermal Limit (brittle/degrades)	-40° to +180°C (-45°/+350°F)	ASTM D-200

ELECTRICAL

Dielectric Strength	1,600 V/mil	ASTM D-1304
Volume Resistivity	7.5 x 10 ¹³ Ω*cm	ASTM D-1304
Surface Resistivity	2.2 x 10 ¹⁴ Ω	ASTM D-1304
Dissipation Factor, 1 MHz	0.06	ASTM D-1304
Dielectric Constant, 1 MHz	4.10	ASTM D-1304

CURE DATA

Using 365 nanometer UV light:

	Cure Time	Intensity ^[2]	Dymax Light-
	<u>(seconds)</u>	mW/cm²	<u>Welder[®] Lamp</u>
Fixture between glass slides	1-5	50	2000-EC
Depth of cure (0.125 inch)	60	50	2000-EC



628-T, 3/2000

HEAT CURE DATA (Secondary)

Heat may be used as a secondary cure for shadow areas, but only after product has been cured with UV. The following is a guide and is dependent on the amount of material to be cured:

Minimum Temperature	<u>Time</u>
110°C (225°F)	60 Minutes
120°C (250°F)	30 Minutes
150°C (300°F)	15 Minutes

DISPENSING AND HANDLING ADHESIVE

Dymax 628-T is available in various packages such as syringes, cartridges, bottles, and pails. It may be dispensed with a variety of automatic bench-top syringe applicators or other equipment as required. Direct questions relating to dispensing and curing systems for specific applications to Dymax Technical Representatives.

Wear impervious gloves and/or barrier cream. Repeated or continuous skin contact with liquid adhesive will cause irritation and should be avoided. Do not wear absorbent gloves. Remove adhesive from skin with soap and water. Never use solvents to remove adhesive from skin or eyes.

STORAGE AND SHELF LIFE

Store material in cool dark place when not in use. Do not expose to UV light or sunlight. Material may polymerize upon prolonged exposure to ambient light. Replace lid immediately after use. Product has a one-year shelf life when stored below 90°F in the original, unopened container. Refrigerated storage extends shelf life.

CAUTION

For industrial use only. Avoid breathing vapors. Avoid contact with eyes and clothing. In case of contact, immediately flush with water for at least 15 minutes; get medical attention. Wash clothing before reuse. Keep out of reach of children. Do not take internally. If swallowed, induce vomiting at once and call a physician. Repeated or continuous skin contact with liquid adhesive will cause irritation and should be avoided. For specific information, refer to the product Material Safety Data Sheet.

NOTES

- [1] Lamps emitting high levels of shortwave light are not recommended. Less than 15% of the lamp's output should be 200-300 nanometer UV light.
- [2] Nominal intensity measured at a predetermined distance. Listed intensity is not the maximum output of the lamp.

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