



PRODUCT DATA

UT582

HEAT CURABLE, BUTYL SEALANT TAPE

DESCRIPTION:

UT582 is a heat-curable, butyl sealant tape primarily designed for use in sealing plastic films to molds during vacuum forming of composite parts. It will cure slightly when heat is applied. UT582 has excellent cohesive and adhesive properties making it a good sealing material for many industrial and building materials applications. UT582 will not affect enamel, lacquer or plastic. It will not stain vinyl, craze styrene or Plexiglas and will not shrink on aging.

- Forms and excellent vacuum seal.
- Excellent resistance to water, water vapor, mild acid, bases, salts and detergents.
- Excellent adhesion to clean, dry surfaces.
- Non-staining to most plastics and metals.

APPLICATION:

Apply by hand to clean, dry surfaces. UT582 may be applied directly to substrates as the roll is unwound or it may be cut to the desired length and then applied. If the alignment or placement of the preformed sealant is not correct, the cohesive strength of the material is sufficient to allow removal and reapplication. Remove liner when sealant is in position and lay vacuum film on top. Apply pressure with hand or roller to maximize adhesion and ensure positive seal. UT582 will easily conform to and fill any minor irregularities in the sealed surfaces and provide an effective barrier to the entry of air, dirt or water. Typical cure temperatures are 250°F to 400°F. Strip sealant below 150°F to minimize or reduce the warping of parts. To leave a clean metal tool surface, strip sealant when tool surface has been cooled to room temperature.

PHYSICAL PROPERTIES:

Property	Test Method	Typical Values
Color	ASTM D1729	Light Gray to Tan
Odor		None
Service Temperature		-60°F to 200°F. Withstands temperatures up to 400°F (205°C) for three hours when used as a vacuum bag sealant for curing composite/laminate materials.
Cure Temperature Range		250°F to 400°F
Cone Penetration, 300 g	ASTM D217	70 – 80 dmm
% Solids	ASTM C771	>99% by weight
Specific Gravity	ASTM D297	1.39 ± 0.05 g/cm ³
Weight per Gallon		11.6 ± 0.5 pounds per gallon
Tensile Strength	ASTM C907	35 psi, no cure >40 psi, with cure
Flexibility	ASTM C765	Passes 3/8-inch mandrel bend at -40°F
Shelf Life		Minimum 1-year when stored in the original container at normal warehouse temperatures.

deVan Sealants, Inc.

6301 Prescott Avenue · P.O. Box 470375

St. Louis, MO 63147

(314) 383-1941 · Fax (314) 383-6491

www.devansealants.com

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