



Sealants, Inc.

PRODUCT DATA

570 BUTYL TAPE

DESCRIPTION:

570 is a butyl-based sealing compound available in black, gray or white colors. It is produced in convenient ready-to-use tapes or beads on handy rolls. This material is resilient yet pliable and easily worked by hand. 570 will not flow, sag or pump from joint due to thermal expansion or contraction. It adheres instantly and is designed to yield a 100% cohesive failure under both wet and dry conditions. 570 will bond to:

- Polyethylene (HDPE)
- Polyester (Mylar™)
- Polyvinyl chloride (PVC)
- Glass
- Wood
- Aluminum
- Steel

Because of its excellent adhesion to most substrates, resistance to chemical attack, resiliency, creep resistance and its clean working properties, 570 may be used in almost any sealing application or as a laminating adhesive when applied as a 1/32-inch thick tape. The following examples are typical of the wide range of possible applications.

- Laminating adhesive for PVC, HDPE, joint compound, dry wall, concrete and laminates such as Formica®.
- Windows, panels and mullions in curtain wall and commercial building construction.
- Plate glass bedding.
- A seal for shower doors, for joints between metal frames and tile walls.
- Can be used wherever a freeze thaw material is required in refrigeration.
- A seal for various types of metal lap joints.

Surfaces to which 570 is to be applied need not be completely clean, although they should be dry. In most instances the aggressive adhesion of 570 will accumulate over time. Materials should be tested in the intended application for product suitability. 570 is chemically inert and non-toxic. It is non-corrosive to paint, metal, aluminum or plastic and will not swell rubber.

PROPERTIES:

Color (ASTM D1729):	Black (570.11) Light gray (570.12) White (570.2)
Odor (ASTM D1833):	None – will not contaminate sweet butter.
Service Temperature:	-40°F to 215°F
Percent Solids (ASTM C771):	99.6% by weight
Weight per Gallon (ASTM D71):	13.6 ± 0.5 pounds/gallon
Cone Penetration (ASTM D217):	80 – 85 dmm

Compressibility: Easily compressible even at 40°F

Elongation: 600%

Tensile Yield (ASTM C907): 25 – 30 psi

Weatherability (ASTM D750): No apparent change of physical properties after 2,000-hours QUV exposure. Exposed surfaces became slightly tackier.

Light Discoloration (ASTM D1148): 1,000-hours with no apparent change (S-1 sunlamp).

Freeze – Thaw Stability: 100,000+ cycles of 6-minutes @ -10°F + 2-minutes @ 80°F.

Thiokol Compatibility: Can be used in conjunction with Thiokol with no effect on Thiokol.

Peel Strength:

Test Condition	Substrate	Peel Strength in pounds per inch of width (PIW) and failure mode
1-hour dwell @ 75°F	HDPE	2.7 PIW, cohesive failure
500-hrs @ 160°F	Glass	4.8 PIW, cohesive failure
	Wood	5.5 PIW, cohesive failure
1,000-hrs @ 160°F	Glass	5.0 PIW, cohesive failure
	Wood	4.9 PIW, cohesive failure
500-hrs UV through glass @ 140°F	Glass	5.1 PIW, cohesive failure
1,000-hrs UV through glass @ 140°F	Glass	5.5 PIW, cohesive failure
2-weeks water soak @ 75°F	Glass	6.0 PIW, cohesive failure
	Wood	5.7 PIW, cohesive failure
4-weeks water soak @ 75°F	Glass	6.0 PIW, cohesive failure
	Wood	5.6 PIW, cohesive failure
500-hrs @ 120°F & 100% humidity	Glass	5.0 PIW, cohesive failure
	Wood	5.5 PIW, cohesive failure
1,000-hrs @ 120°F & 100% humidity	Glass	5.8 PIW, cohesive failure
	Wood	6.6 PIW, cohesive failure

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