



## PRODUCT DATA

# 589.12

### Re-EXTRUDABLE BUTYL TAPE

#### DESCRIPTION:

589.12 is a butyl-based sealing compound designed for extruding to size on line. Due to its crosslinked butyl memory, it will pull back to size if stretched during processing. This material is soft, resilient, pliable and easily worked by hand; yet adheres instantly to most commercial surfaces including PVC, polyethylene, polyester, glass, aluminum and wood. Any excess squeeze-out occurring during processing can easily be cut-off with minimum elongation or stretching.

589.12 is formulated to yield a 100% cohesive failure in both wet and dry conditions. It is chemically inert, non-toxic and non-corrosive to paint, metals and plastic. It will not swell rubber. 589.12 will not flow, sag or pump from joint due to thermal expansion and contraction.

589.12 is supplied in rope form on spools for re-extruding applications and convenient ready-to-use tapes and beads on rolls.

#### USES:

Because of its excellent adhesion to most materials, high resistance to chemical attack, resiliency, creep resistance and clean working properties, 589.12 may be used in almost any sealing application including:

- Window and door back bedding applications where cutting and removal of excess material is important.
- Sealing windows, panels and mullions in curtain wall and commercial building construction.
- Sealing of shower doors and joints between metal frame and tile walls.
- Wherever a freeze thaw material is required in refrigeration applications.
- Sealing metal lap joints.

#### SURFACE PREPARATION:

Surfaces to which 589.12 is to be applied need not be completely clean. In most instances, the aggressive adhesion of 589.12 will accumulate over time. Customer testing is recommended to ensure the suitability for each application.

#### PROPERTIES:

Color (ASTM D1729):	Gray
Odor (ASTM D1833):	None
Weight per Gallon (ASTM D71):	11.7 ± 0.5 pounds/gallon
Percent Solids (ASTM C771):	99.6% by weight
Cone Penetration (ASTM D217):	63 – 73 dmm

Weatherability (ASTM D750): No significant change in tensile yield or elongation after 2,000-hours QUV exposure.

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

Adhesion, cross-lap on glass to wood: 100% cohesive failure.

Tensile Yield (ASTM C907): 20 psi

Tensile Modulus:  
 9 psi @ 100%  
 8 psi @ 200%  
 4 psi @ 300%  
 3 psi @ 400%  
 2 psi @ 500%  
 2 psi @ 600%

Elongation: 600%

Tensile Yield and Elongation after Water Soak: No significant change after 72-hours water soak. Tested while still wet.

Creep: No significant flow @ 180°F and 1-psi.

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.

Compressibility: Easily compressible @ 40°F.

Peel Strength:

Test Condition	Substrate	Peel Strength (180-degree) in pounds per inch of width (PIW) and failure mode
1,000-hours @ 160°F	Glass	7.0 PIW, cohesive failure
	Wood	6.0 PIW, cohesive failure
1,000-hours UV exposure	Glass	6.0 PIW, cohesive failure
4-weeks water immersion	Glass	12 PIW, cohesive failure
	Wood	14 PIW, cohesive failure

**REGULATIONS and SPECIFICATIONS:**

AAMA: Meets the requirements of 802.3, Type II and 804.3 of the American Architectural Manufacturers Association.

Federal Specification: Meets the requirements of TT-S-00230C, Type II, Class B, providing for 25% maximum joint movement.

**NOTE:**

Tape squeeze out is a major concern when large lites are used. Lites greater than 100 united inches (length in inches plus width) require a continuous shim or rod in the center of the tape. The shim serves as a spacer to keep the glass from contacting the rabbit during periods of deflection. The rabbit surface must be serrated or other effective measures found, to retain the shim during the pumping action.

This data is based on tests believed to be reliable and is given for information only.

Complete technical information is available from deVan Sealants, Inc. For technical assistance, customer service and general information please call:

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