



PRODUCT DATA

561.12

PREFORMED BUTYL SEALANT FOR THE GRAIN BIN AND PRE-ENGINEERED METAL BUILDING INDUSTRIES

DESCRIPTION:

561.12 is formulated with high performance butyl elastomers to meet pre-engineered grain bin and metal building requirements. It is soft, resilient and easily worked by hand; yet it adheres instantly to almost any normal commercial surface without being cleaned. 561.12 has excellent weathering characteristics while retaining adhesion and elasticity in both hot and cold environments.

561.12 has outstanding webbing and elongation properties along with excellent adhesion to glass, plastic, polyethylene, galvanized, aluminum and aluminum-zinc coated steel. 561.12 also has excellent adhesion to siliconized polyester, polyurethane and polyvinyl fluoride painted substrates. It is designed to seal exposed joints against infiltration of air, dust, water and pollutants.

Spacer cubes can be incorporated into 561.12 to prevent bottoming out of sealant when fasteners are installed. They also prevent sealant from being pumped out of the joint due to thermal expansion or contraction. This material is manufactured in convenient ready-to-use tapes, beads and pads of various sizes.

PROPERTIES:

Color (ASTM D-1729):	Off-white
Odor (ASTM D-1833):	None – will not contaminate sweet butter. Non-toxic, non-injurious to skin.
Service Temperature:	-70°F to 220°F
Percent Solids (ASTM C-771):	99% by weight
Weight per Gallon (ASTM D-71):	13.7 ± 0.5 pounds/gallon
Flexibility (ASTM C-765):	Passes 3/8-inch mandrel bend at -70°F
Consistency (ASTM D-217):	
@ 0°F	≥ 42
@ 77°F	≤ 110
@ 120°F	≤ 145
Plastic Deformation (ASTM D-816):	No flow or deformation
Vehicle Bleedout (AAMA 800-08; ASTM C-772):	
21-days @ 77°F	No visible bleedout or migration
14-days @ 180°F	No visible bleedout or migration
21-days RS type sunlamp	No visible bleedout or migration

Staining (ASTM D-925):

Method A – 7-days @ 175°F

No staining, no significant change in sealant color or its non-skinning characteristics. Will not cause crazing of plastic.

Method B – 7-days RS type sunlamp @ 140°F

No staining, no significant change in sealant color or its non-skinning characteristics. Will not cause crazing of plastic.

Elongation and Webbing:

≥400% elongation @ 32°F w/o water leaks

≥600% elongation @ 77°F w/o water leaks

400% typical

1000% typical

Tensile Yield (ASTM C-907):

17 psi with cohesive failure typical

Water Resistance:

Maintains adhesion to galvanized metal, aluminum-zinc coated steel and siliconized polyester painted substrates submerged for 60-days @ 120°F.

Paintability:

Paintable

Weatherability (ASTM D-750):

No apparent change of physical properties after 1000-hrs QUV exposure. Slight discoloration.

Chemical Resistance:

Excellent to ozone, water and alcohols.
Good to weak acids and bases.
Fair to ketones.
Poor to oils, aliphatic and aromatic solvents.

Paper Release:

Release paper comes off sealer easily and clean at temperatures up to 120°F.

Dimensional Stability:

Roll of sealer will not sag more than 3/4-inch when hung vertically for 48-hours.

Heat Stability – 6-months @ 180°F

No hardening, crusting or softening of surface. No surface crazing after bending over 1/4-inch mandrel when cooled to 75°F.

Shelf Life:

One year in a sealed carton at ambient temperatures.

REGULATIONS and SPECIFICATIONS:

- Federal Specification: TT-C-1796A, Type II, Class B (supersedes MIL-C-18969B).
- NAAMM: Meets standard SS-1C-68.
- FDA Regulation: Meets FDA Regulation, food additives, sub-paragraph 175.105 being composed of ingredients acceptable for packing and transporting food.
- USDA: Is acceptable to the U.S. Department of Agriculture for use in meat and poultry processing areas under Federal Inspection.

For technical assistance, customer service and general information please contact us at:

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