

**PHYSICAL PROPERTY FOR ATAS INTERNATIONAL, INC.
BUTYL SEALANT TAPE**

PROPERTIES	DEVAN 562.12 & 562C.12
CHEMICAL BASE	Butyl
COLOR	Light Gray
SPECIFIC GRAVITY	1.33 - 1.43 ASTM-D 71
TOTAL SOLIDS	> 99% (ASTM C771)
CONE PENETRATION ASTM D 217 (0.1 mm) at 0°F at 77°F at 120°F	≥45 82 - 92 ≤145
FLEXIBILITY	Passes 3/8" mandrel bend @ -70°F (ASTM C765)
ELONGATION	500% typical at 32°F and 1200% typical at 77°F w/o water leaks (TP-012)
SAG TEST	
STAINING	No stain near or under the sealant. No significant changes in the sealant color or its non- skinning characteristics. (ASTM D 925, Methods A & B)
VEHICLE BLEED OUT	No evidence of fluid migration on #40 Whatman filter paper after 14 days at 180°F and 21 days exposure from a UVA-340 type sunlamp. (AAMA 800-08, ASTM C772)
PLASTIC DEFORMATION	
CRAZING TO ACRYLIC PLASTICS	Will not craze plastic. (ASTM D 925, Method B)
APPLICATION TEMPERATURE	-5°F to 120°F
SERVICE TEMPERATURE	-70°F to 220°F

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TENSILE ADHESIVE STRENGTH (ASTM C 907)	24 psi with cohesive failure
PEEL ADHESION	
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CORROSION	No evidence of pitting, darkening or corrosion of galvanized steel, aluminum-zinc coated steel, and aluminum after immersion in water at 110°F for 7 days
STATIC WATER HEAD TEST (MBMA ice damming)	Passes 5-inch simulated water head test.
WEATHERABILITY	No apparent change of physical properties after 1,000 hours in QUV exposure. Slight discoloration of sealer. (ASTM D750)
PAPER RELEASE	Release paper comes off of sealer easily and clean at temperatures up to 120°F. (TP-013. Method B)
FREEZE THAW	Freeze-thaw stable.
ELASTIC RECOVERY	25% minimum
HEAT STABILITY	No hardening, crusting, or surface crazing when bent over a 1/4" mandrel after being aged six months at 180°F
COLD FLOW STABILITY	Roll of sealer will not sag more than 3/4" when hung vertically for 48-hours. (TP-010).
YIELD STENGTH ASTM C 908	

PROPERTIES	DEVAN 562.12 & 562C.12
CHEMICAL RESISTANCE	Excellent to ozone, water, and alcohol. Good to weak acids and bases. Fair to ketones. Poor to oils, aliphatic and aromatic solvents
WATER RESISTANCE	Maintains adhesion to galvanized metal, aluminum-zinc coated steel and siliconized polyester painted substrates after 60 days immersion in water @ 120°F.
FEDERAL SPECIFICATION	TT-C-1796A, Type II, Class B. Supersedes MIL-C-1896B
MILITARY SPECIFICATION	
NAAMM	Meets Standard SS-1C-68
FDA REGULATION	Meets FDA Regulation, food additives, sub-part F, 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
LEED	Conforms to LEED (Leadership in Energy and Environmental Design 2009) for New Construction, Indoor Environment Quality: Section 4.1, Low Emitting Materials: Adhesive & Sealants (SCAQMD) Rule # 1168, VOC limits