

Specifications for Standard Weatherproofing Kits

The application of sealing materials to antenna cable connections protects them from weather conditions. These include moisture penetration and loosening of connections from vibrations caused by strong winds. Andrew Corporation recommends weatherproofing these connections with standard weatherproofing tapes such as butyl and plastic electrical tapes.

Butyl tape used in Andrew weatherproofing kits is an elastomeric butyl rubber-based extruded sealant on silicon release paper, designed for sealing a variety of construction joints. This product is very resistant to ultraviolet light and is engineered to withstand extreme temperatures while offering superior low temperature compressibility and resistance to cold flow.

Electrical tape used in Andrew weatherproofing kits is a high quality, vinyl insulating tape. It has excellent resistance to: abrasion, moisture, alkalis, acid, copper corrosion and varying weather conditions (including sunlight). It is a polyvinyl chloride conformable.



Characteristics

Data/Physical Properties butyl Tape

Test Method	Test Typical	Results
GSTM*	Color	Black
ASTM D-217-68	Cone Penetration @77°F, 105g/5 sec, 1/10 mm	55
ASTM C-771-74	Non-Volatile, % weight @ 212 + 3°F	99+
ASTM D-792-66	Weight/gallon @ 77°F, lbs.	12.5
ASTM D-792-66	Specific gravity @ 77°F	1.4 - 1.5
GSTM 11*	Service temperature - range. °F	-60 to 212°F
GSTM 16*	Sag (three weeks @ 160°F)	None
ASTM C-765-73	Cold temperature flexibility (1/2" mandrel bend @ -60°F)	No cracking or loss of adhesion
GSTM 9*	Webbing and elongation:	
	@ 77°F	1,050% +
	@ 32°F	3,050% +
GSTM 1*	Adhesive/cohesive failure mode @ 77°F	3%/97%
ASTM D-897-72	Tensile strength, p.s.i. @ 77°F	25
ASTM D-750-68	Weatherability - 1,000 hours in Q.U.V. weatherometer (cycle of 8 hours U.V. @ 150°F; then 4 hours of condensation @ 104°F)	No discoloration cracking, crazing or loss of adhesion

Data/Physical Properties Vinyl Electrical Tape

Temperature Rating	Results
UL 510	80°C (176°F)
CSA 22.2: Continuous operation	90°C (194°F)
Handling	-10°C (14°F)
Flammability: UL 510	Pass
Dielectric Strength: Standard conditions	>1000 V/mil
After humidity condition	>90% of standard
Insulation resistance*	>10* Megohms
Thickness*	7 mils
Elongation*	225%
Breaking Strength*	15 lba/in
Adhesion: To steel	25 oz/in
To backing	19 oz/in

*ASTM D1000

UL Listed: UL 510 standard "Insulating Tape"

CSA Certification: standard C22.2 No. 197-M1983 "PVC Insulating Tape"

RoHs approved