3M Scotch-Seal[™] Tamper Proof Sealant 1252

Technical Data		November, 2009	
Product Description	3M TM Scotch-Seal TM Tamper Proof Sealant 1252 is a fast drying, anti-tamper seale which is fire retardant.		
Features	• Can be applied over adjustable or removable parts to indicuate changes in adjustment or other evidence of tampering by a break in the seal when the part is altered in position.		
	• Has been effectively used in the electronics industry to protect settings and calibrations of electronic equipment against tampering, to seal electronic components between stages of assembly, to aid in the visual inspection of subassembly components, equipment and parts which are restricted to adjustment, alteration, or access by qualified personnel.		
	• Exposed surfaces will accept ink from an inspector's approval stamp and can be marked as soon as 20 seconds after the sealer application.		
Typical Physical Properties	Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.		
	Viscosity (approx.):	500 - 2500 cps	
	Brookfield Viscometer:	RVF #6 sp. @ 4 rpm @ 77°F (26°C)	
	Solids (by wt):	61 - 73%	
	Base:	Nitrile	
	Color (wet and dry):	White	
	Net weight (approx.):	13.1-14.1 lbs.	
	Flash point:	20°F (-4°C)	
	Solvent:	Methyl ethyl ketone (MEK)	
Handling/Application Information	Application: One-part, air drying compound suitable for hand extruding from a collapsible metal tube. Surfaces must be clean, dry and dust free.		
	Cleanup: Excess sealant may be removed from application equipment with a solvent such as 3M TM Scotch-Grip TM Solvent No. 3 or methyl ethyl ketone (MEK).*		
	*Note: When using solvents, extinguish all ignition sources, and follow the manufacturer's precautions and directions for use.		

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Typical Performance Characteristics	 Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes. Drying Time: A 1/8" layer of 3MTM Scotch-Seal Tamper Proof Sealant 1252 is tack-free in 20 seconds and suitable for stamping with ink. Hardness: After 24 hours @ 77°F (25°C), 50% R.H., has a Shore A hardness of 97-99. Friability: Easily crumbled when the surface to which it is applied is flexed or twisted. Flammability: Dry film of the sealant is fire retardant and flames will extinguish themselves within 15 seconds. Dielectric Strength: 100 volts/mil, minimum, Fed. Standard #406, Method 4031. Surface Resistivity: 10¹⁰ ohms, minimum, Fed. Standard #406, Method 4041. Heat Resistance: Dried for 24 hours @ 77°F (25°C) 50% R.H., withstands 200°F (93.3°C) for 72 hours without loss of adhesion or sagging. 						
				• Fluid Resistance: Cured 24 hours @ 77 the following fluids: MIL-L-7808 Oil Aviation Gas (115/145) 3% Salt Water Tap Water JP-4 Fuel	 Y°F (25°C) 50% R.H. was immersed in Moderate softening; good adhesion Slight softening; good adhesion No effect No effect Slight softening; good adhesion 		
				 Adhesion Overlap (Shear Strength) Average of 6 1" x 1¹/₂" overlap – 10 mil thick bond li @ 77°F (25°C). 	Aluminum (Alclad)Steel173 psi164 psine. Specimens were cured for 24 hours		
				 Overlap Shear: 1" x 1¹/₂" – 10 mil thick films cured 24 hours @ 77°F (25°C). Corrosion: After 72 hours @ 77°F (25°C) there is no evidence of corrosion on steel, aluminum, brass or silver. 			
							• Low Temp. Shock: Dried films 1/16" thick withstand 3 foot-lbs. shock at -20°F (-29°C) without loss of adhesion.
				Storage	Store at 60-80°F (16-27°C) for maximum storage life. Higher temperatures reduce normal storage life. Lower temperatures cause increased viscosity of a temporary nature. Tubes must be stored in an inverted position (tips down). Rotate stock on a "first in-first-out" basis.		
				Shelf Life	When stored in the original unopened container, under the conditions recommended, this product has a shelf life of 9-12 months @ 40°F (4°C).		

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