SHIN-ETSU Silicones of America

KE1052F A/B Silicone Dielectric Gel

FEATURING:

- Improved adhesion to many substrates
- Easy mix ratio, 1:1 by weight
- Color combination for visual QC inspection
- Room Temperature cure
- Low viscosity

Shin-Etsu KE1052F A/B silicone gel is a two component, flowable liquid that cures into a tacky elastomer when mixed. The cure may be accelerated with the application of heat. The material is color coded for easy visual QC inspection, even in thin sections. The material is ideal for the passivation of PCB? and other vibration sensitive parts.

TYPICAL PROPERTIES

Before Cure		
	Appearance A/B	Red, Blue Flowable Liquid
	Viscosity, 25°C, cps	1,000
	Specific Gravity, 25°C	0.98
After Cure (24 hours @ 25°C)		
	Penetration	75
	Volume Resistivity	2.0×10^{15} min. ohms/cm
	Dielectric Constant	2.7 max @ 50 Hz
	Dissipation Factor @ 60Hz	2.0×10^{-4} max.
	Ionic Purity	0.01/mil
	Pot Life, 25^{O}C	40 minutes

SHELF LIFE

The shelf life for KE1052F A/B when stored at 5°C (40°F) or below in its original, unopened containers is six months from date of shipment.

CURE

For optimal properties the recommended cure schedule for KE1052F A/B is 24 hours 25°C. KE1052F A/B may also be cured at temperatures as low as 70°C for 5 minutes. Pot life is 40 minutes @ 25^0C.

COMPATIBILITY

KE1052F A/B is an addition curing silicone elastomer. Certain chemicals, curing agents, plasticizers and materials can inhibit cure. The most common are:

Organo-tin and other organo-metallic compounds
Silicone rubber containing organo-tin catalyst
Sulfur, polysulfides, polysulfones and other sulfur containing materials
Amines, Urethanes, and amine containing materials
Unsaturated hydrocarbon plasticizers
High acid content PVC

Should a substrate or material be a possible cause of inhibition, it is best to test a small sample for compatibility with the elastomer. The presence of liquid at the interface of the substrate and the elastomer is a good sign of inhibition.
