



## FB-40 & FB-45 Keypad Material Specifications

### **Conductive Pill Specifications (FB-45 does not have conductive rubber pills)**

**Material Grade:** Shin-Etsu KE-3801 (MU) is a black semi-conductive silicone compound. It has been designed as a 75 durometer material with typical volume resistivity values of 3  $\Omega$ -cm.

Typical Properties	
Appearance	Black
Specific Gravity	1.2
Hardness, Shore A, D2240	75
Tensile Strength, D412 (psi)	710
Elongation, D412 (%)	160
Tear, Die B, D624 (ppi)	80
Resilience, Bayshore, D2632 (%)	50
Compression Set, method B, D395 (%)	20
Volume Resistivity, D257, ( $\Omega$ -cm)	3

### **Silicone Rubber Keypad Specifications**

**Material Grade:** Shin Etsu KE-951 U is one of a series of easy processing, general purpose silicone rubber bases. It can be used in a variety of applications requiring finishing by molding (compression, injection, transfer).

Typical Properties	
<b>Press Cured Properties</b>	
Appearance	Translucent
Specific Gravity	1.15
<b>Post Cured, 4 hrs. @ 200°C</b>	
Hardness, Shore A, D2240	50
Tensile Strength, D412 (psi)	1280
Elongation, D412 (%)	350
Tear, Die B, D624 (ppi)	72
Comp. Set method B, D395 (%)      22 hrs. @ 149°C (300°F)	10
Volume Resistivity, D257 ( $\Omega$ -cm)	$8 \times 10^{14}$

D numbers refer to ASTM methods. All values are typical.

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