

SILICONE RUBBER KEYPADS

Mylar/Rubber Domes

Where a tactile response is critical, a mylar layer with snap domes integrated into it provides both positive tactile response and reduced key travel. As it can be bonded to a PCB, the part adds value to itself by reducing the likelihood of ingress from contaminant elements.

Laser Etching

The process of laser etching a painted rubber keypad involves the top layer of coating being removed from the key to reveal a lighter secondary layer below. A possible effect gained from this is that the legends on the keys are enhanced by a back lit effect, making it perfect for use in light sensitive environments.

Plastic Key Tops

Where proof of a tactile response is required by the operator, coupled with a need to increase cycle life, these factors can be achieved by incorporating plastic key tops. By doing so this allows for both a functional solution to the problems and an aesthetically pleasing enhancement to the keypad as a whole.



Epoxy Cured Key Tops

For keypads that may be exposed to rigorous or repeated use, the application of an epoxy or gloss layer to the top of each key can improve durability, whilst giving each key upon actuation a noticeable positive feel and improved cosmetic appearance due to the curved surface that occurs after application.

Applications:

- Medical
- Marine
- Security
- Industrial
- Military
- Instrumentation

Silicone Rubber	Typical
Hardness Shore A	35-80
Tensile Strength Kg/Cm	50-80
Elongation	>100%
Tear Strength	>9kg/Cm ²
Electrical	
Operating Temperature	<20c to 180c
Operating Force	40 to 350 grams
Cycle Life	Up to 10 000 000
Contact Resistance	<100 Ohms
Contact Bounce	<12 milliseconds
Contact Rating	<10mA @ 12 VCD
Insulation Resistance	10/2 Ohms @ 500 VDC

These figures should be used as a general guide only and will vary according to design and product.