

Silicone Sensors

The silicone sensors use a high grade silicone bulk material in concert with a pre-applied silicone Pressure Sensitive Adhesive (PSA). The Silicone is a tough and dependable material manufactured for aerospace applications. Conventional NDI tools, in need, can be used alongside and indeed some tools over the CVM sensor with no degradation of results.

Installing sensors is simple and quick. The test surface is pre-cleaned and the sensor removed from its release liner case and laid on the test surface and rolled firmly down. The PTFE tubes are inserted and the system is ready for use.

In particularly harsh environments, sensors are over coated with specified polymer / resins to provide extra protection to the sensor and the parent structure.

Short Specifications:

Temperature Range:	-65° C to +140° C
Colour:	Translucent
Minimum bend radius:	5 mm
Required Surface Finish:	$R_a = 63$
Application over paint:	Application specific (contact SMS)

Sensor Component	Nominal dimensions		
Sensor Profile (Figure 1)	Edge footing	G_{FE}	0.50 mm
	Gallery width	G_W	0.45 mm
	Interstitial footing	G_{FI}	0.55 mm
	Gallery centre to centre	G_P	1.00 mm
	Gallery centre to edge	G_E	0.725 mm
	Gallery centre to opposing gallery end	G_O	1.00 mm

Table 1 Sensor profile and Gallery spacing

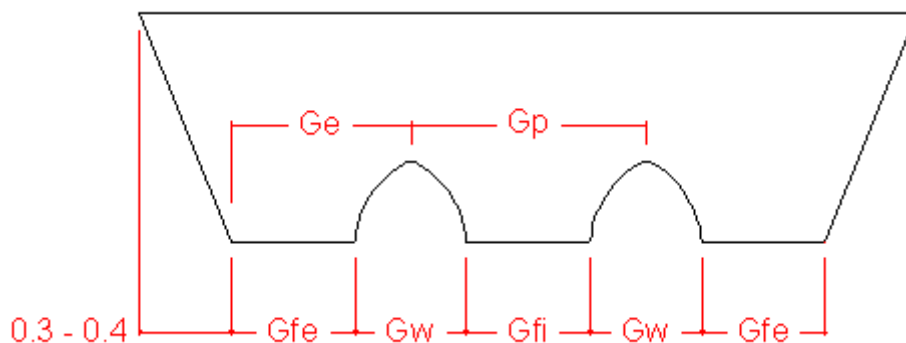


Figure 1. Sensor Profile