

## Form-In-Place Sealing Gasket

## F6003



### Description

The F6003 is a water and environmental seal Form-In-Place gasket. This product is designed as a non-electrically conductive option with the added benefits of a resilient elastic gasket and good adhesion on general plastics and metals.

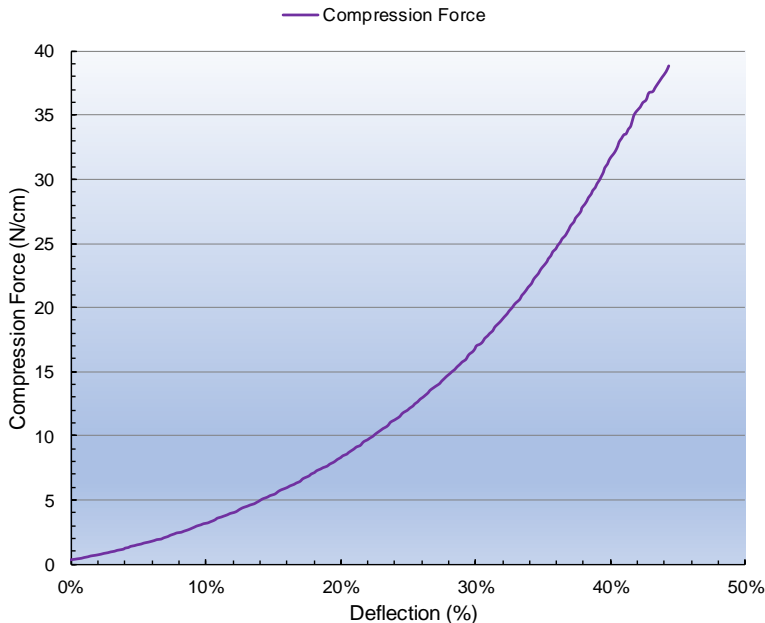
The F6003 is a two component material with a heat curable silicone system that is optimized for the Form-In-Place process. It has a quick production cycle due to a heat curing process of less than one hour.

### Benefits

- Leakage of silicone oil under high temperature and pressure does not occur
- This material has precise elastic rubber properties designed for a low compression force
- A rate of greater than 100 Newtons/cm<sup>2</sup> shear adhesion on common housing substrates and coatings

### Force-Deflection of F6003 Gasket

1.0 mm(H) \* 1.3 mm(W) \* 5.0 mm(L)  
Rate of Strain, 1.5mm/min



Properties	Unit	F6003
Elastomer Binder		Silicone
Color		Black
<b>Physical Properties</b>		
Density	g/cm <sup>3</sup>	1.05
Hardness	Shore A	40
Adhesion Al metal	N/cm <sup>2</sup>	>100
Tensile Strength	psi	450
Elongation	%	200
Tear Strength	lbf/in	100
Compression Set @70°C, 72 hrs.	%	15
Temperature Range	°C	-45 to 150
Maximum Using Temperature	°C	200
<b>Electrical Properties</b>		
Volume Resistivity	Ohm-cm	1 x 10 <sup>12</sup>

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