

Thermally Conductive Silicone Rubber Sponge Sheetting SIL-X-600-FFF GREEN

The material SIL-X-600-FFF is a thermally conductive closed cell Silicone sponge rubber. This material offers thermal conductivity along with electrical isolation. SIL-X-600-FFF is the superior choice for gasketing and cushioning applications requiring critical thermal transfer/sealing.

Physical Properties :

Property	Test Method	SIL-X-600-FFF
<u>Colour</u>	<u>Visual</u>	<u>Light Green</u>
Thickness, nominal (inch)	ASTM D374	1/32, 1/16, 3/32, 1/8, 3/16, 1/4
Thermal conductivity (W/Mk)	ASTM E1530	See chart below
Thermal Impedance (°c in.2/W)	ASTM E1530	See chart below
Break strength (psi)	ASTM D412	120
Elongation (%)	ASTM D412	150
Hardness (Shore A)	ASTM D2240	13
Dielectric strength (volts/mil)	ASTM D149	100
Compression defelction (@25% psi)	ASTM D1056	20
Compression set	ASTM D1056	15
Density (lbs./lin3)	ASTM D297	0.040
Operating Temperature (°c)	-	-62°c to 204°c

Compression (%)	Pressure (psi)	Thermal Conductivity (W/mK)	Thermal Impedance (°c in.2.W)
Contact	<1	0.30	6.0
10	5	0.40	4.5
25	12	0.45	2.5
50	34	0.65	1.0

All properties are typical values and should not be used for writing specifications

Recommended Uses :

SIL-X-600-FFF is offered to fill the needs of an unsupported thermal transfer material in applications requiring clean release, enhanced thermal performance by filling air gaps, electrical isolation and vibration cushioning.

Availability :

SIL-X-600-FFF is available in both sheets 915mm x 915mm and 915mm wide off the roll. Material can be supplied with an aggressive acrylic pressure sensitive adhesive or high temp Silicone adhesive on one side. Non-standard thicknesses available, please contact our sales team. An extra firm grade is available in 1/32" thick.