



### 5G High Frequency Absorber

ECCOSORB 5G HiF 1 is a dielectrically loaded elastomer with excellent absorption properties in the high frequencies of the mmWave range. It is flexible with a high service temperature (165C). It has a UL94 fire retardancy rating (pending).

Based on silicone resin along with oxidation resistant filler, it performs well even in harsh environments.

The material is effective in reducing specular reflections as well as suppressing cavity resonances especially above 40 GHz and surface currents.

### FEATURES

- 5G Frequencies tune
- Silicone Based
- RoHS/Reach compliant

### BENEFITS

- High performance at high frequencies >40GHz
- Outdoor

### PRODUCT INFORMATION

- Standard sheet size is 305mm x 305mm (12"x12")
- Available in several thicknesses on demand
- Pressure Sensitive Adhesive option available

### MARKETS

- Telecom Infrastructure
- Mobile Telecom
- Handset/Consumer
- IoT

### AVAILABILITY

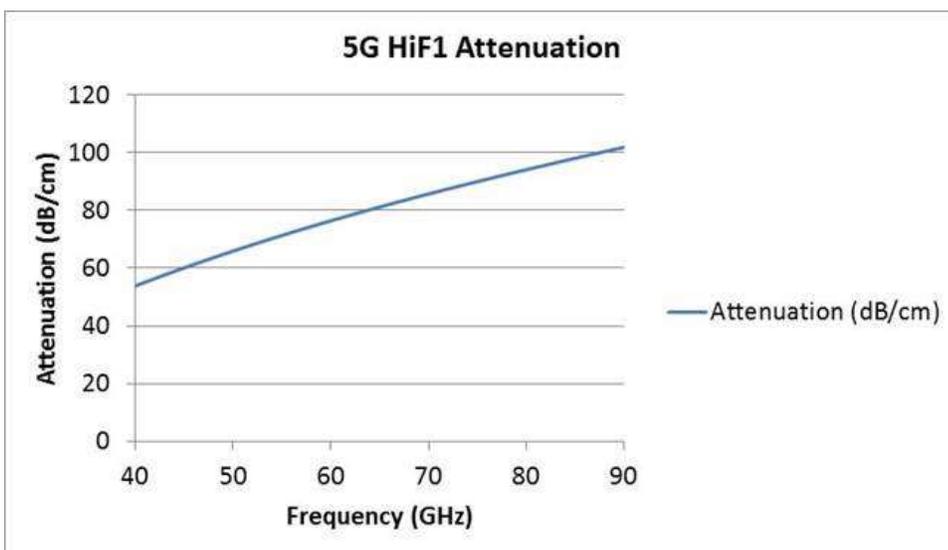
- Available from June 2018
- Standard sheet size is 305 mm x 305 mm (12"x12")
- Standard thickness are 0.5mm (0.020") and 1mm (0.040")
- Customized shapes and thicknesses can be supplied, as well as sheets with self-adhesive backing (suffix -SA).

### SPECIFICATIONS

TYPICAL PROPERTIES	FEATURES	
<b>Color</b>	Light grey	
<b>Density</b>	1 Kg/m <sup>2</sup>	0.5 mm
<b>Service temperature</b>	-55 + 165°c	
<b>Frequency Range</b>	>40Ghz	
<b>Attenuation</b>		
40 Ghz	55 dB/cm	
60 Ghz	75 dB/cm	
80 Ghz	90 dB/cm	
<b>Tensile Strenght</b>	>4 Mpa	
<b>Hardness</b>	70 shores A	
<b>Flammability rating</b>	UL V0 pending	

Data for design engineer guidance only. Observed performance varies in application.

Engineers are reminded to test the material in application.



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