

# BRALCO

Advanced Materials Pte Ltd

"Materials by Design, Manufacturing on Demand."

#03-66,81 Ayer Rajah Crescent, Singapore 139967

Tel: +65 69800689

www.bralcoadvancedmaterials.com

## Technical Data Sheet

### FEATURES

- Flexible, magnetic particle loaded polymeric sheets for 5G high frequency microwave absorber
- Provides excellent attenuation across a wide frequency range
- High magnetic loss in suppressing resonant cavity modes, isolating signals, and attenuating surface currents
- Halogen free, RoHS and REACH Compliant

### PRODUCT INFORMATION

- Standard sheet size:
- 12" x 12" (30.48 cm x 30.48 cm)
- Available several thicknesses and shapes on demand
- Available with pressure sensitive adhesive (PSA)

### AVAILABILITY

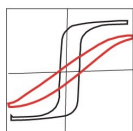
- Available from January 2022
- Standard sheet size: 12" x 12" (30.48 cm x 30.48 cm)
- Custom sheet sizes and designs are available upon request
- Customized light weight shapes and thicknesses can be supplied, as well as sheets with pressure sensitive adhesive (PSA)

Bralco's thin/thick sheets and solid shape composite materials are designed to manage interference energy, improving reliability and efficiency in device performance. EMI Absorbers are designed to eliminate unwanted electrical "noise" in an electronic device. Different to shielding solutions, EMI Absorbers are intended to absorb unwanted energy, controlling and minimizing internal interference and crosstalk, and are commonly used as last-minute fixes to manage EMI concerns where device redesign is not possible. EMI absorbers can be flexible or rigid and their applications are diverse and vary greatly from more traditional shielding materials and solutions.

Bralco's EMI absorber solutions span multiple frequency ranges and applications, including:			
General EMI Noise: Absorption in a Flexible Format -100MHz-1GHz	- Wi-Fi network, Radar and tracking device, satellite communications: Absorption in a Flexible Format - 1GHz – 20 GHz	5G satellite communication systems: Absorption in a Rigid/custom design Format 20GHz-40GHz	- For low and medium capacity radio-relays and broad band customer access: Absorption in a Rigid Format (40 GHz and above)

GST Reg No: 201534054H

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Properties	Unit	Product Type: EMI Absorber BRALCO Part Number: BRAL -101-110
Frequency Ranges		100 MHz-1 GHz
Standard Thickness	mm	0.025 / 0.05 / 0.1 / 0.15 / 0.2
Attenuation		15dB @100 MHz, 40 dB @1GHz
Service Temperature	°C	-50 ~200
Density	g/cc	3.8
Flammability		UL 94
Hardness		>70
RoHS/REACH		RoHS/REACH Compliant
Note		General EMI Noise Absorption

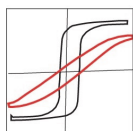
Properties	Unit	Product Type: EMI Absorber BRALCO Part Number: BRAL-120-130
Frequency Ranges		1GHz-20 GHz
Standard Thickness	mm	0.025 / 0.05 / 0.1 / 0.15 / 0.2
Attenuation range/cm		40 dB @ 1GHz, 60 dB@20 GHz
Service Temperature	°C	-50 ~200
Density	g/cc	4.2
Flammability		UL 94
Hardness		>70
RoHS/REACH		RoHS/REACH Compliant
Note		Wi-Fi network, Radar and tracking device, satellite communications

Properties	Unit	Product Type: EMI Absorber BRALCO Part Number: BRAL -240-250
Frequency Ranges		20 GHz-40 GHz
Standard Thickness	mm	0.025 / 0.05 / 0.1 / 0.15 / 0.2
Attenuation c		60 @ 20 GHz, 85 dB @ 30 GHz, 95 dB@ 40 GHz
Service Temperature	°C	-50 ~200
Density	g/cc	4.2
Flammability		UL 94
Hardness		>70
RoHS/REACH		RoHS/REACH Compliant
Note		5G satellite communication systems

Properties	Unit	Product Type: EMI Absorber BRALCO Part Number: BRAL -400-410
Frequency Ranges		40 GHz and above
Standard Thickness	mm	0.025 / 0.05 / 0.1 / 0.15 / 0.2
Attenuation range/cm		98 dB
Service Temperature	°C	-50 ~200
Hardness		>70
Density	g/cc	4.4
Flammability		UL 94
Hardness		>70

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RoHS/REACH		RoHS/REACH Compliant
Note		For low and medium capacity radio-relays and broad band customer access

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