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Technical Data Sheet

Product Name

KPA Water-based Electromagnetic shield Coating

What is a KPA EMS Coating

A water-based carbon coating is specially formulated to provide superior electromagnetic shielding, electrical conductivity and anti-static properties. The coatings unique particle size and binder system combine to promote a tenacious film for maximum protection against electrosmog.



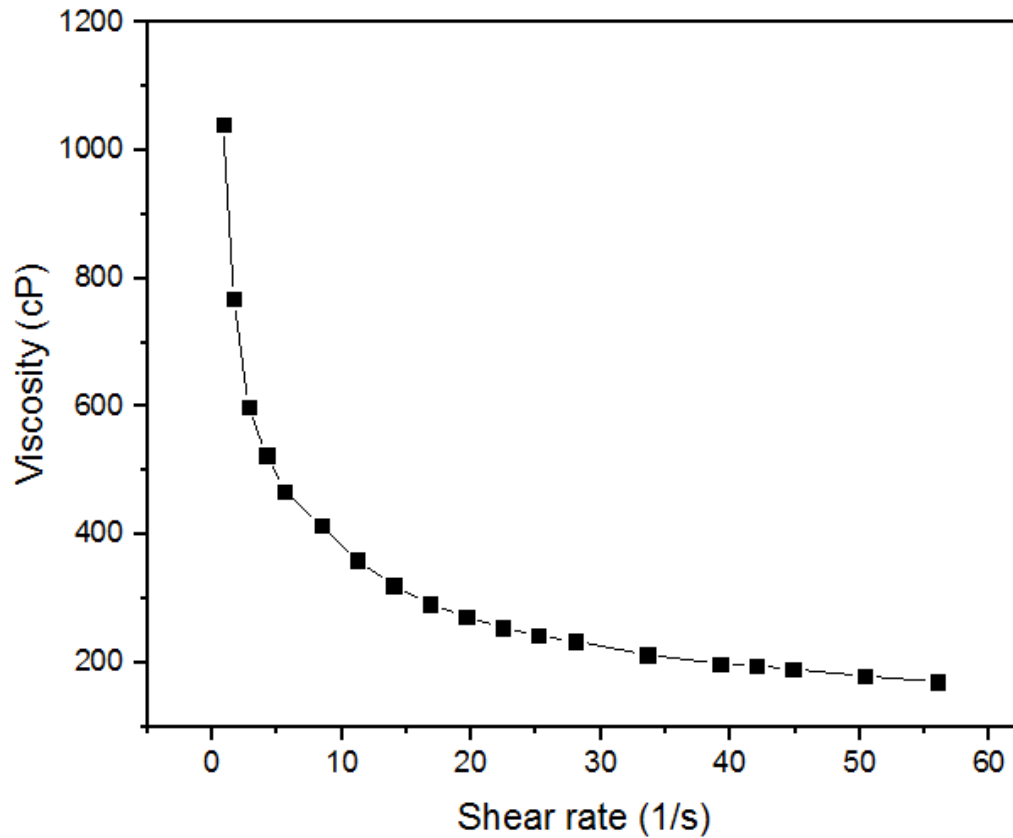


Properties of KPA EMS Coating

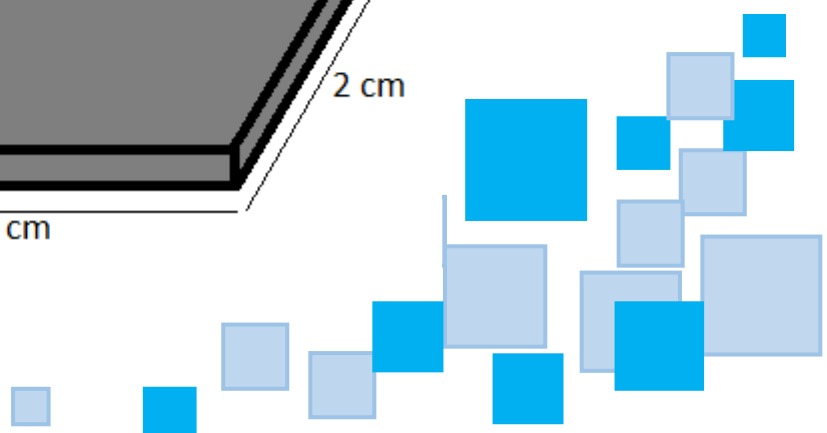
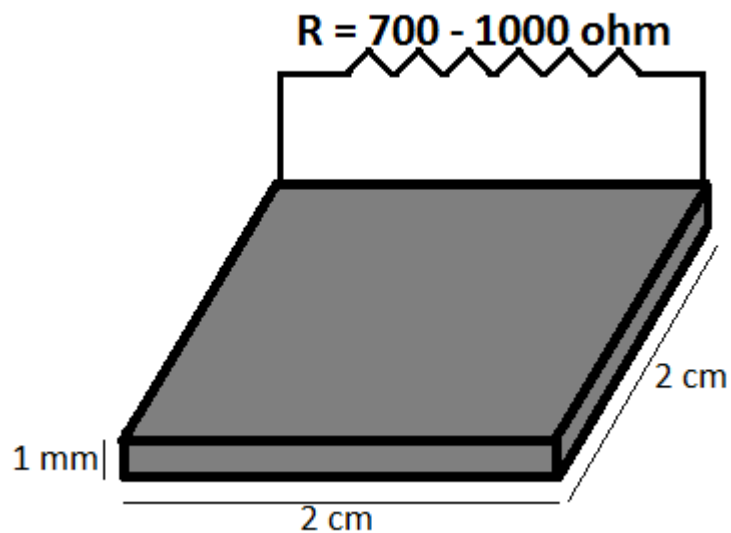
Property	Value
Solid Filler	Carbon Powder
Solid Content	$\approx 40\%$ (in oven at 70 °C and 2 hr)
Consistency	Medium Thick Liquid
Form	Viscous Liquid - Water-Based
Density	1.2-1.3 kg/l
Color	Black
Viscosity	160-185 cP at shear rate of 50 s ⁻¹
pH	6-7
Electrical Resistance	700-1000 Ohm (20*20*1mm)
Flash Point	None
Freeze Data	0°C
Shelf Life	Six months, Original Seal
VOC	Negligible
Odor	Mild
Solid Particle Size	< 100 μm



Viscosity versus shear rate



Electrical Resistance





Electromagnetic Shielding Efficiency

	Frequency Range	SE (dB)	Average SE (%)
Band 1	1450-2200 MHz	26.49	94.14
Band 2	2200-3300 MHz	80.59	99.98
Band 3	3300-4900 MHz	80	99.95
Band 4	4900-7000 MHz	78.10	99.98
Band 5	7000-10000 MHz	78.52	99.98
Band 6	8200-12400 MHz	78.78	99.96





Storage

Should be stored at temperature range 20-25 °C in a dry and clean place.

Lid should be tightly sealed.

Don't allow to Freeze.

Shelf life

The shelf life in original-seal (unopened) containers stored under temperature range 20-25 °C, is at least 6 months.

Safety and Handling

• Precautionary statements:

Use ventilation

Wash hand thoroughly after handling.

Do not drink the product.

Wear protective gloves/protective clothing/eye protection.

Skin contact: Wash off with soap and plenty of water.

Eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.