

Description

RF1001-CN-S has been formulated to meet the strictest control of electrical interference both radiation and susceptibility. It is formulated with specially prepared nickel granules and conductive resins to provide a conductive layer when applied on to plastic, resins and metal substrates for a wide range of products. The highly conductive shield RF1001-CN-S, when applied to specification, provides an effective shielding against radiated radio and Electromagnetic interference (RFI & EMI) and in other application can act as a ground plane to protect against electrostatic discharge (ESD).







Technical Data

Colour	Dark Grey
Loose Particle Tolerance	Zero
Adhesion to ASTM D-3359B	5B
Sheet Resistance @ 50 microns (Ω)	>0.25
Pencil Hardness @ 50 microns	9H
Attenuation @ 50 micron (dB)	65
Operating Temperature ($^{\circ}\text{C}$)	-40 to +100

Key Properties

-  Compatible with sensitive plastics
-  Effective Shielding at 50 Microns dry film thickness
-  Passes UL, FCC and VDE Requirements
-  Excellent Adhesion and Cohesion
-  Can be applied to most substrates
-  Excellent Abrasion resistance scuff resistant
-  Highly conductive finish but has excellent ESD properties
-  High and selectively gas and water vapour permeable
-  High dielectric strength combined with a high specific resistivity
-  Stable over a wide operating temperature
-  Solvent free

Applications

-  Medical and Lab applications
-  Automotive, Marine and Aviation application
-  Military and Defence Applications
-  Electronics Enclosures
-  Plastic Mouldings
-  Commercial Machinery

Shielding Effectiveness

Frequency MHZ	Attenuation dB	Frequency MHZ	Attenuation dB
0.1	125	100	87
0.2	127	150	90
0.4	122	200	100
0.6	123	250	82
1.0	120	300	71
2.0	118	400	70
4.0	100	600	67
6.0	90	700	68
15.0	90	800	56
40.0	87	900	58
60.0	82	1000	52

