

SHIELDOSEAL 3991

Shieldoseal 3991 series creates a electrically and thermally conductive connection between components. Used for ESD and EMI shielding applications.



Shieldoseal is a 65-durometer adhesive sealant, filled with electrically conductive particles. The sealant will cure within 24 hours, but ultimate physical properties could take up to 72 hours to develop. Shieldoseal should adhere excellently to most substrates.

SHIELDOSEAL FOR EMI SHIELDING

One of the applications of Shieldoseal is EMI shielding. Shieldoseal has excellent filling properties, therefore almost any surface can be filled up. Shieldoseal cures quickly at room temperature. When fully cured, the substance remains as elastic as rubber and is homogeneously conductive. In addition, it especially distinguishes itself from other substances by a high level of heat conductivity. Shieldoseal is pasty and can be used to glue metals (copper, aluminium, stainless steel, brass, etc.), ceramics and most plastics.

SPECIFICATIONS

Specification	Part number 3991
Conductive particles	Nickel graphite
Shore A	65
Tensile Strength	178 psi
Specific Gravity	2.39
V.R. Ohm-cm	0.02
Color	Gray
Shelf life	Six months from date of manufacture

CONDUCTIVE ADHESIVE

Specification	Unit	3991
Metal with metal		Good
Metal with RFI gasket		Good
RFI gasket with RFI gasket		Good
Viscosity upon delivery		Viscous
Toluene solvent	N/cm	5
Catalyst	21 °C	Air humidity
Resistance against	UV, ozone	Yes
Storage time: plastic cartridges	Weeks	2
Storage time: aluminium	Weeks	8

CURING

Specification	Unit	3990/3991
Curing at room temperature	21 °C	Yes
Film formation at 0.2mm strength approx.	Minutes	1- 4
Curing at 0.2mm strength approx	Minutes	5- 20
Curing based on film strength and venting surface approx.	Minutes	3- 180
Odorless		No

ORDER EXAMPLE

Series	Content (Gr.)
3991	
Nickel graphite filled conductive 1-component sealing	3991 comes in 130 gram- plastic cartridge *Other cartridges on request