



Micarta[®]

StatNot[™] Static Dissipative Laminates

Micarta[®] StatNot[™] is the superior high performance composite to protect sensitive electronic applications from ESD damage. Its high temperature glass epoxy formulation is ideally suited to test, assembly, and manufacturing work surfaces, as well as any other situation where highly effective electrostatic dissipative protection is required. Micarta statNot utilizes a newly formulated, proprietary high strength conductive material, compounded as an integral part of the epoxy resin and impregnated into a woven glass substrate. The ESD material retains the high strength, dimensional stability, and chemical and thermal resistance of epoxy glass (G-10/FR-4), with the added feature of an ESD-resistant surface that will not rub off, wear or diminish over time. In addition, the StatNo (H-27210) material utilizes a high temperature resin system which enables continuous operating performance to 360°F (180°C).

Applications:

- Automated test equipment
- Solder pallets
- Enclosures
- Assembly fixtures
- Carrier pallets
- Work surfaces

Features:

- High strength
- Excellent dimensional stability
- 5 times the stiffness of leading thermoplastics
- Printable surface
- Cost-effective solution to ESD protection
- Eliminates cracking and chipping
- Uniform thickness of ESD protection across the sheet, as compared to coatings

Sizes: 4' x 8', 4' x 9' Other (non-standard) sizes. Thickness to specification

Color: Black

StatNot[™] Properties

StatNot[™] Surface (1 or 2 Sides) will bleed static when properly grounded. Properties dominated by the FR-4 substrate. Surface is a laminate layer, not a surface treatment

StatNot[™] Throughout has slightly different properties, and is formulated as a high temperature epoxy loaded with the conductive component

Property	StatNot 1or2 Surface H-27227 or H-27228	StatNot Throughout H-27210
Density	0.069 lb/in ³	0.065 lb/in ³
Water absorption (1/8" thick)	0.05%	0.15%
Hardness (Rockwell) (m scale)	109	115
Temperature – Index	285°F (140°C)	360°F (180°C)
Tensile strength (with grain)	50,000 psi	46,400 psi
Compressive strength (flatwise) – 1/2" thick	60,000 psi	51,200 psi
Flexural strength (1/8" thick)	63,000 psi	53,300 psi
Bonding strength (1/2" thick)	2,600 lbs	1,660 lbs
Impact strength (Izod) – edgewise with grain	12 ft.-lb/in.	11.6 ft.-lb/in
Shear strength (1/8" thick)	20,000 psi	22,100 psi
Volume resistivity	6 x 10 ⁶ ohm-cm	40 x 10 ⁶ ohm-cm
Surface resistivity	12 x 10 ⁶ ohm/sq	15 x 10 ⁶ ohm/sq
Surface resistivity	6 x 10 ⁶ ohm/sq	2 x 10 ⁶ ohm/sq
Static decay (EIA-541, NFPA 99)	<2 Sec	<2 Sec
Coefficient of thermal expansion: x	18 x 10 ⁻⁶ in/in°F	18 x 10 ⁻⁶ in/in°F
y		36 x 10 ⁻⁶ in/in°F