## **Product Data Sheet**





## Product MCT 9232-04SFDA

## **Self-Filleting Non-Conductive Die Attach**

DESCRIPTION: 9232-04SFDA is a nitride filled, single component, frozen, epoxy compound for die to die or die to substrate or leadframe with a TC of 2.88W/mK. This product is designed to release entrapped air rapidly during cure resulting in a smooth, self-filleting pinhole free surface. The viscosity is such that this material will flow nicely and form fillets during die attach and the AIN filler guarantees a minimum adhesive thickness of 7um. Adhesion to Si, GaAs, GaN, glass, epoxy molded components, leadframes, is excellent.

Appearance: Color: Grey Viscosity (cps): 3100

Filler AIN+ 85% - 88% Filler size ~7um Hardness (Shore D) 75 Coefficient of Thermal Exp. (in/in/°C x 10<sup>-6</sup>) Below Ta 45 Above Tg ~188 Ta °C ~92 Thermal Conductivity (W/mK) 2.88 Modulus 1.5 Cure Shrinkage (%) 0.189 Tensile Strength (psi) 9600 Water Absorption (%) < 0.20 Dielectric Strength (volts/mil) 475  $1 \times 10^{15}$ Volume Resistivity (Ω-cm) Power Factor (60 HZ) 0.028 Dielectric Constant (60 HZ) 4.3

Post Cure Ionics 883/5011.3.8.7 Cl=<6ppm, Na+=<3.3ppm, K+=<1.1ppm Teflon Flask 5 gm sample using 20-40 mesh, 50 gm DI H<sub>2</sub>O, 100°C for 24 hours

Curing: Full Cure: 1 hr @ 80°C, 30 min @ 100°C, 20 MIN @ 150°C

Shipping: Freeze Packs – No Dry Ice Storage: Shelf Life: 4-5 days at 20-25°C,

3 months @ -10°C, 9 mos.-1 year @ -40°C in original sealed containers.

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