

POSS[®] Coat IM9310

IM9310 is a high-temperature protective enamel reinforced by nanoscale POSS[®] materials. It is based on polyimide chemistry which offers the best overall dielectric performance at high use temperatures. The incorporated POSS[®] material further enhances its mechanical, adhesion and dielectric performance at elevated temperatures. IM9310 is supplied as POSS incorporated polyamic acid in NMP. It is mainly applied in the areas of insulation of wires/cables as well as electronic devices. It can also be used to make nanoreinforced polyimide sheets that are impact and radiation resistant.

KEY PERFORMANCE

- *Excellent fracture toughness/impact resistance*
- *High use temperature up to 250°C*
- *Resistant to thermal shock up to 450°C*
- *Corrosion and moisture resistant*
- *Excellent insulation*

TYPICAL PHYSICAL PROPERTIES

Composition:	POSS [®] molecules Polyamic acid N-methylpyrrolidone (NMP)
%Solid:	15%
Density:	1.4 g/ml
Glass Transition:	385°C
Tensile Modulus:	1.36 GPa
Tensile Strength:	125 MPa
Elongation at break:	120%
CTE:	~50 ppm/°C

WARRANTY

The information contained herein is believed to be accurate and reliable. However, the user is responsible for determining the suitability and use of the final formulations/products. Hybrid Plastics warrants that its products will meet specifications, but not merchantability or fitness for use.

Hybrid Plastics[™] Superior Technology for Superior Products
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