

Hybrid Plastics Nanoreinforced[®] POSS[®] Polyimide

Category : Polymer , Thermoplastic , Polyimide, Thermoplastic

Material Notes:

Nanoreinforced[®] POSS[®] Polyimide is a hybrid nanocomposite that can serve as oxidation resistant and highly bondable form of polyimide. Upon exposure to oxidizing oxygen the POSS[®] polyimide generates a nanoscopically thin glassy layer on the surface. The nanoscopic glass layer in turn provides a barrier to further oxidation and improved the surface toward adhesion and bonding. Other benefits from POSS[®] polyimides are better flame retardancy, lower CTE, and higher use temperature, while maintaining existing mechanicals. The product is supplied in a premixed 15 wt% solution of poly (amic acid) and POSS[®] in NMP. POSS[®] concentration is predefined as 5wt% or in higher loadings upon request. Information provided by Hybrid Plastics

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hybrid-Plastics-Nanoreinforced-POSS-Polyimide.php

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	62.1 MPa	9000 psi	
Elongation at Break	5.0 %	5.0 %	
Modulus of Elasticity	2.39 GPa	346 ksi	

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	385 Â°C	725 Â°F	

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