

Hybrid Plastics Nanoreinforced[®] PM 1215 Polyimide

Category : Polymer , Thermoplastic , Polyimide, Thermoplastic

Material Notes:

The homogeneous dispersion of POSS[®] cages within polyimide provides enhanced control over chain dynamics which increases the toughness and damage tolerance over conventional polyimide. The chemical composition of POSS[®] provides increased oxidation resistance by enabling the in-situ formation of a nanoscopically thin surface glass upon exposure to oxidants. Surface glassification enables both increase durability and bonding to the surface. Other benefits from POSS[®] incorporation include flame retardancy, lower CTE, and higher use temperature, while maintaining existing mechanicals. Information provided by Hybrid Plastics

Order this product through the following link:

http://www.lookpolymers.com/polymer_Hybrid-Plastics-Nanoreinforced-PM-1215-Polyimide.php

Physical Properties	Metric	English	Comments
Density	1.40 g/cc	0.0506 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	125 MPa	18100 psi	
Elongation at Break	120 %	120 %	
Tensile Modulus	1.36 GPa	197 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	50.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	27.8 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 $\text{Å}^\circ\text{C}$	@Temperature 68.0 $\text{Å}^\circ\text{F}$	
Glass Transition Temp, Tg	385 $\text{Å}^\circ\text{C}$	725 $\text{Å}^\circ\text{F}$	

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