

Whitecast Polymer Engineering Epoxy Composite Casting

Category : Polymer , Thermoset , Epoxy , Filled/Reinforced Thermoset

Material Notes:

Whitecast Polymer Engineering (WPE) low-density material is used for acoustic dampening requirements (Damping ratio = 0.158). There is an order of magnitude higher vibration dampening realized when using WPE composite rather than aluminum and steel. WPE material is 3-5 times greater in vibration dampening than granite. The product has excellent chemical resistance. The aggregate filler blend has been designed for optimum compressive modulus. The purity of the aggregate, particle shape, particle size and particle size distribution are the factors considered during the development of the WPE aggregate material. Combining these materials has resulted in the most stable material used in the polymer composite industry. Information provided by Whitecast Polymer Engineering.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Whitecast-Polymer-Engineering-Epoxy-Composite-Casting.php

Physical Properties	Metric	English	Comments
Density	2.35 g/cc	0.0851 lb/in ³	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	91	91	
Tensile Strength, Ultimate	14.5 MPa	2100 psi	
Modulus of Elasticity	31.0 GPa	4500 ksi	
Compressive Strength	162 MPa	23500 psi	
Adhesive Bond Strength	13.8 MPa	2000 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	16.9 $\mu\text{m}/\text{m}\cdot\text{°C}$	9.40 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Maximum Service Temperature, Air	121 °C	250 °F	
Minimum Service Temperature, Air	-45.6 °C	-50.0 °F	

Descriptive Properties	Value	Comments
Damping Ratio	0.158	

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