

Haveg 41N Phenolic; Silicate Reinforced Ablative Material

Category : Polymer , Thermoset , Filled/Reinforced Thermoset , Phenolic , Phenolic, Ablative Coating

Material Notes:

A proprietary thermoset plastic consisting of a phenol-formaldehyde resin and non-asbestos silicate fillers converted to a permanent thermoset state under heat and pressure. It is designed for ablative uses involving heat.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Haveg-41N-Phenolic-Silicate-Reinforced-Ablative-Material.php

Physical Properties	Metric	English	Comments
Density	1.85 g/cc	0.0668 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	40.4 MPa	5860 psi	
Elongation at Break	0.75 %	0.75 %	
Tensile Modulus	9.30 GPa	1350 ksi	
Flexural Yield Strength	67.8 MPa	9830 psi	
Compressive Yield Strength	157 MPa	22800 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	9.40 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	5.22 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	in x- and y-directions
	@Temperature 20.0 $\text{Å}^\circ\text{C}$	@Temperature 68.0 $\text{Å}^\circ\text{F}$	
	15.4 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	8.56 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	in z-direction
	@Temperature 20.0 $\text{Å}^\circ\text{C}$	@Temperature 68.0 $\text{Å}^\circ\text{F}$	
CTE, linear, Transverse to Flow	9.40 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	5.22 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	
	@Temperature 20.0 $\text{Å}^\circ\text{C}$	@Temperature 68.0 $\text{Å}^\circ\text{F}$	
Specific Heat Capacity	1.10 J/g- $\text{Å}^\circ\text{C}$	0.263 BTU/lb- $\text{Å}^\circ\text{F}$	
Thermal Conductivity	0.320 W/m-K	2.22 BTU-in/hr-ft Å^2 - $\text{Å}^\circ\text{F}$	

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