

SpinTech Veritex[®],ç Shape Memory Polymer Composite

Category : Polymer , Thermoset

Material Notes:

Veritex[®],ç is a fiber-reinforced composite that uses a shape memory polymer, Veriflex[®], as the matrix. This allows Veritex to easily change shape above its activation temperature. At lower temperatures, the material maintains high strength and high stiffness. When heated, Veritex will temporarily soften. It can then be reshaped and will harden in seconds, maintaining the new configuration. When reheated, Veritex will return to its original cured shape. This versatility allows for structures to be stowed and then later deployed to the operational shape. Veritex can be manufactured with a variety of fiber types and shape memory polymer formulations to fit unique applications requiring different properties.

Unique shape memory properties
 Strengthening fabric reinforcement
 Deforms and recovers shape repeatedly
 Transforms from rigid composite to soft elastomer
 Up to 80% elongation in elastic state
 Durable
 Machinable

Order this product through the following link:

http://www.lookpolymers.com/polymer_SpinTech-Veritex-Shape-Memory-Polymer-Composite.php

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	16.7 MPa	2420 psi	Y-Direction; ASTM D638
	17.9 MPa	2600 psi	X-Direction; ASTM D638
Elongation at Break	1.7 %	1.7 %	Y-Direction; ASTM D638
	4.2 %	4.2 %	X-Direction, Below T _g ; ASTM D638
	80 %	80 %	X-Direction, Above T _g ; ASTM D638
Tensile Modulus	1.187 GPa	172.2 ksi	X-Direction; ASTM D638
	1.227 GPa	178.0 ksi	Y-Direction; ASTM D638

Thermal Properties	Metric	English	Comments
Glass Transition Temp, T _g	62.0 Â°C	144 Â°F	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China