

Maverick Superimide® MVK-19

HIGH TEMP ~ LIGHT WEIGHT ~ EXTENDED LIFE

MAXIMUM ENDURANCE

Designed for operation temperatures up to 700°F, Superimide® MVK-19 was developed to operate in severe environments. MVK-19 components have been qualified in the hottest compressor stages of military and commercial jet engines since 1994.

Reinforced with continuous fiber, MVK-19 components exhibit excellent thermal and mechanical stability under extreme conditions. MVK-19 components are available exclusively from Maverick Molding Co.

Typical Properties

Mechanical Properties	Temperature	Test Method	Units	Typical Values
Tensile Strength	RT	ASTM D3039	Ksi	17.0
Tensile Modulus	RT	ASTM D3039	Msi	1.1
Tensile Elongation @ Break	RT	ASTM D3039	%	3.0
Compressive Strength	RT	ASTM D695	Ksi	35.0
Compressive Modulus	RT	ASTM D695	Msi	0.75
Flexural Strength	RT	ASTM D790	Ksi	27.5
Flexural Modulus	RT	ASTM D790	Msi	3.0
Flexural Strength	500°F	ASTM D790	Ksi	17.0
Flexural Modulus	500°F	ASTM D790	Msi	1.45

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Typical Properties

Physical Properties	Temperature	Test Method	Units	Typical Values
Hardness, Rockwell "E"	RT	ASTM D785	-	50
Glass Transition Temperature, Tg	RT – 750°F	ASTM E1640	°F	725
CTE Parallel to Molding Direction	RT to 450°F	ASTM E831	In-inE-6/°F	1.5
CTE Transverse to Molding Direction	RT to 450°F	ASTM E831	In-inE-6/°F	8.0
TOS (700°F, 100 hrs, 70 psi) Weight Loss	700°F	Pressurized TOS E50TF534	%	2.50
Wear Properties	Temperature	Test Method	Units	Typical Values
Coefficient of Friction	RT to 700°F	ASTM G99	-	0.19

Disclaimer: The data listed herein fall within the normal range of properties but should not be used to establish specification limits or used alone as the basis of design. Maverick Molding Co. assumes no obligations or liabilities for any advice furnished or for any results obtained with respect to this information. All such advice is given and accepted at buyer's risk.



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