

Maverick Superimide® T-115

HIGH TEMP ~ LIGHT WEIGHT ~ EXTENDED LIFE

MEETS ASTM-D-6456

Superimide® T-115 is a graphite enhanced polyimide for use at temperatures up to 570°F (300°C). T-115 also meets the requirements of GE A50TF146 Class B. Typical applications for T-115 include bearings, bushings, washers, split rings and other wear applications.

T-115 is available exclusively from Maverick as a finished product machined to your print.

Typical Properties

Mechanical Properties	Temperature	Test Method	Units	Typical Values
Tensile Strength	RT	ASTM D638	Ksi	10.1
Tensile Modulus	RT	ASTM D638	Msi	0.65
Tensile Elongation @ Break	RT	ASTM D638	%	3.7
Tensile Strength	500°F	ASTM D638	Ksi	5.2
Tensile Elongation @ Break	500°F	ASTM D638	%	2.3
Compressive Stress @ 10% Strain	RT	ASTM D695	Ksi	17.0
Compressive Modulus	RT	ASTM D695	Msi	0.46
Compressive Stress @ 10% Strain	500°F	ASTM D695	Ksi	9.0
Compressive Modulus	500°F	ASTM D695	Msi	0.25

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Typical Properties

Mechanical Properties	Temperature	Test Method	Units	Typical Values
Flexural Strength	RT	ASTM D790	Ksi	14.9
Flexural Modulus	RT	ASTM D790	Msi	0.65
Flexural Strength	500°F	ASTM D790	Ksi	7.7
Physical Properties	Temperature	Test Method	Units	
Density	RT	ASTM D792	(g/cm ³)	1.48
Hardness, Rockwell "E"	RT	ASTM D785	-	50
Glass Transition Temperature, Tg	RT – 750°F	ASTM E1640	°F	735
CTE Parallel to Molding Direction	RT to 450°F	ASTM E831	In-inE-6/°F	42
CTE Transverse to Molding Direction	RT to 450°F	ASTM E831	In-inE-6/°F	27
TOS (700°F, 100 hrs, 70 psi) Weight Loss	700°F	Pressurized TOS E50TF534	%	11.4

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Wear Properties	Temperature	Test Method	Units	Typical Values
Coefficient of Friction	RT to 700°F	ASTM G99	-	0.2
Wear @ Temp 30N Load, 500 rpm, 2 hours	400°F	ASTM G99	µm	6
Wear @ Temp 30N Load, 500 rpm, 2 hours	600°F	ASTM G99	µm	10

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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