

Maverick Superimide® K-210

HIGH TEMP ~ LIGHT WEIGHT ~ EXTENDED LIFE

GREASE FREE PERFORMANCE

Designed for operation temperatures up to 550°F, Superimide® K-210 offers an excellent balance between component affordability and performance. Like all Maverick products, K-210 chemistry is non-carcinogenic.

K-210 components are self-lubricating, eliminating the need for grease. K-210 has good mechanical properties, low CTE, low coefficient of friction, and high wear resistance, making it suitable for a wide range of bearing applications. K-210 components are available exclusively from Maverick Molding Co.

Typical Properties

Mechanical Properties	Temperature	Test Method	Units	Typical Values
Tensile Strength	RT	ASTM D638	Ksi	12.5
Tensile Modulus	RT	ASTM D638	Msi	2.0
Tensile Elongation @ Break	RT	ASTM D638	%	0.8
Tensile Strength	500°F	ASTM D638	Ksi	7.5
Compressive Strength	RT	ASTM D695	Ksi	30.3
Compressive Modulus	RT	ASTM D695	Msi	2.2
Compressive Strength	500°F	ASTM D695	Ksi	22.4
Compressive Modulus	500°F	ASTM D695	Msi	1.4
Flexural Strength	RT	ASTM D790	Ksi	16.5
Flexural Modulus	RT	ASTM D790	Msi	1.9
Flexural Strength	500°F	ASTM D790	Ksi	9.0
Flexural Modulus	500°F	ASTM D790	Msi	1.5

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Physical Properties	Temperature	Test Method	Units	Typical Values
Density	RT	ASTM D792	(g/cm ³)	1.58
Hardness, Rockwell "E"	RT	ASTM D785	-	97
Glass Transition Temperature, Tg	RT – 750°F	ASTM E1640	°F	635
CTE Parallel to Molding Direction	RT to 450°F	ASTM E831	In-inE-6/°F	13
CTE Transverse to Molding Direction	RT to 450°F	ASTM E831	In-inE-6/°F	10
TOS (600°F, 120 hrs, 150 psi) % Weight Loss	600°F	Pressurized TOS E50TF534	-	0.3
Wear Properties	Temperature	Test Method	Units	Typical Values
Coefficient of Friction	RT to 700°F	ASTM G99	-	0.15
Wear @ Temp 30N Load, 500 rpm, 2 hours	600°F	ASTM G99	µm	14

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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