

# Maverick Superimide<sup>®</sup> SM-456

*HIGH TEMP ~ LIGHT WEIGHT ~ EXTENDED LIFE*

## THERMAL INSULATION

Superimide<sup>®</sup> SM-456 is a high temperature, low CTE, filled polyimide resin composite designed for service in extreme conditions such as aircraft braking systems, industrial heavy machinery bearings and other friction and wear applications.

Superimide<sup>®</sup> SM-456 Composites are available exclusively from Maverick as engineered, net molded articles designed in accordance with customer requirements.

### Typical Properties

Mechanical Properties	Temperature	Test Method	Units	Typical Values
Tensile Strength	RT	ASTM D638	Ksi	11.6
Tensile Modulus	RT	ASTM D638	Msi	1.9
Tensile Elongation @ Break	RT	ASTM D638	%	0.86
Compressive Strength	RT	ASTM D695	Ksi	38
Compressive Modulus	RT	ASTM D695	Msi	1.56
Flexural Strength	RT	ASTM D790	Ksi	10.5
Flexural Strength	500°F	ASTM D790	Ksi	8.6

# Maverick Superimide<sup>®</sup> SM-456

*HIGH TEMP ~ LIGHT WEIGHT ~ EXTENDED LIFE*

## Typical Properties

Physical Properties	Temperature	Test Method	Units	Typical Values
Density	RT	ASTM D792	(g/cm <sup>3</sup> )	1.54
Hardness, Rockwell "E"	RT	ASTM D785	-	99
Glass Transition Temperature, Tg	RT – 750°F	ASTM E1640	°F	644
CTE Parallel to Molding Direction	RT to 450°F	ASTM E831	In-inE-6/°F	40
CTE Transverse to Molding Direction	RT to 450°F	ASTM E831	In-inE-6/°F	8
Wear Properties	Temperature	Test Method	Units	Typical Values
Coefficient of Friction	RT to 700°F	ASTM G99	-	0.15

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.



For additional information contact:

Maverick Molding Co., 11379 Grooms Rd, Blue Ash, OH 45242

Phone: (513) 387-6100 or visit our website at: [www.maverickmolding.com](http://www.maverickmolding.com)