STEREOLITHOGRAPHY

CERAMIC-LIKE WHITE

(ADVANCED HIGH TEMP)

Current Supplier Material: PerFORM

PRODUCT DESCRIPTION

Ceramic-Like White (Advanced High Temp) combines superior high heat tolerance with strength and stiffness. A thermal post-cure can be used to further improve mechanical properties and its heat resistance, however, it will be more brittle.

APPLICATIONS

Advanced Ceramic-Like High-Temp White is often used for automotive housings, electrical casings, wind tunnel testing, and other components that require high heat tolerance and strength.

KEY PRODUCT BENEFITS

- High strength and stiffness
- Superior heat tolerance

PROPERTIES

PROPERTY	TEST METHOD	VALUE	AFTER OPTIONAL THERMAL POST-CURING
Color	-	White	White
Density in solid state*	@ 25 °C (77 °F)	1.61 g/cm³	-
Water absorption (20 °C, 50% relative humidity)	ASTM D570	0.35 ± 0.15%	0.35 ± 0.15%
E-module (x-y plane)	ASTM D638, test speed 10mm/min.	10,000 ± 1,000 MPa	10,500 ± 1,000 MPa
Tensile strength (x-y plane)		70 ± 10 MPa	75 ± 10 MPa
Elongation at break (x-y plane)		1.5 ± 1%	1 ± 0.5%
Heat deflection temperature @ 0,46 MPa*	ASTM D648	132 °C (270 °F)	268 °C (514 °F)
Heat deflection temperature @ 1,82 MPa*		82 °C (180 °F)	119 °C (246 °F)

*From supplier data sheet

TOLERANCES

For well-designed parts, tolerances in the X/Y dimension of ±0.002 in. (0.05mm) for the first inch plus ±0.001 in./in., and Z-dimension tolerances of ±0.005 in. (0.127mm) for the first inch plus ±0.001 in./in. (0.001mm/mm), can typically be achieved. Note that tolerances may change depending on part geometry.

CHINA METAL PARTS, CORP.

China Metal Parts, Corp.
7th Industrial Zone, Shangnan, Shajing, Baoan, Shenzhen, China.
Zip Code: 518125 Tel: +86-755-27311095 Fax: +86+755-29918958
inquiry.us@made-parts.com us.mfgmachined.com