

TAC – W11A01

Description:

TAC-W11A01 is a Carbon Fiber, Graphite, and Ceramic filled Bulk Molding Compound manufactured and designed to have outstanding wear and thermal characteristics. Typical applications include wear bushings and bearings, engine components, and more.

Mechanical Properties	Value	Unit	Test Method
Tensile Strength	25.3	MPa	ASTM D638
Tensile Elongation at Break	1.9%	-	ASTM D638
Flexural Strength	99	MPa	ASTM D790
Flexural Modulus	107,677.00	MPa	ASTM D790
Un-Notched Izod Impact ⁽¹⁾	123	J/m	ASTM D256
Compressive Strength	190 -201	MPa	Provisional
Thermal Properties	Value	Unit	Test Method
Thermal Conductivity (through plane)	0.9	W/m ² K	C-Therm
Coefficient of Thermal Expansion		-	
25° to 250°	5.59E-06	(µm/m°C)	TMA
250°C to 280°C	1.60E-05	(µm/m°C)	TMA
280° to 290°C	4.92E-04	(µm/m°C)	TMA
Other Properties	Value	Unit	Test Method
Glass Transition (Tg)			
Post Baked	237	°C	DMA
Un-Post Baked	219	°C	DMA
Water Absorption ⁽²⁾	>.019%	-	ASTM D 570
Specific Gravity	1.94		ASTM D 792

(1) Test conducted at a room temperature of 22°C

(2) Test conducted in temperature controlled water of 23°C for 24 hours

Disclaimer:

NOTICE TO USERS: All values represented are based on laboratory tests and does not represent or reflect conditions that exist in production. The data provided should not be used to or intended to substitute for any testing you may need to conduct to determine suitability of a material for a particular use. No warranty or legal responsibility is accepted or implied, and all information is accepted at buyer's risk. This information may be subject to revision as new knowledge and experience become available.