

UBE Tyranno Grade A Ceramic Semi-Conductive Fiber

Category : Ceramic , Oxide , Other Engineering Material , Composite Fibers

Material Notes:

Description: Tyranno Fiber is the continuous ceramic fiber consisting of Si, Ti or Zr,C and O. Advanced composites reinforced by the Tyranno Fiber are expected to play a very important role in the environmental preservation field in the future such as ultra high speed transportation, energy savings, CO2 and NOx reduction, and purification of the exhaust fumes. The reinforcing fibers need to meet the demand for these applications such as high temperature stability, high strength, and high reliability in the extreme environment. The Tyranno Fiber with excellent properties is extending its applicability in various fields and will realize these. Tyranno Fiber SA is a polycrystalline SiC fiber containing small amount of Aluminum, produced by decomposing and subsequently sintering of the amorphous Si-Al-C-O fiber. Tyranno Fiber SA is very stable fiber-----for example, the weight loss of this fiber was only 1.8wt% at 2200°C. The initial strength of this fiber was perfectly maintained up to 1900°C in Argon. In spite of its crystalline structure, as the diameter is very small (~10µm), Tyranno Fiber SA is flexible enough to weave to fabrics. Its excellent creep resistance at high temperature has been already confirmed. Semi-Conductive Grade Tyranno Fiber is essentially a semi-conductive material and its specific resistance can be controlled from 106 to 10-1 ohm-cm. In addition, the specific resistances of G-grade and H-grade fibers can be controlled within ± 10% tolerance. Information provided by UBE.

Order this product through the following link:

http://www.lookpolymers.com/polymer_UBE-Tyranno-Grade-A-Ceramic-Semi-Conductive-Fiber.php

| Physical Properties | Metric | English | Comments |
|---------------------|-----------|---------------------------|----------|
| Density | 2.29 g/cc | 0.0827 lb/in ³ | |
| Filament Diameter | 8.5 µm | 8.5 µm | |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|----------|------------|----------|
| Tensile Strength, Ultimate | 3300 MPa | 479000 psi | |
| Elongation at Break | 1.9 % | 1.9 % | |
| Tensile Modulus | 170 GPa | 24700 ksi | |

| Electrical Properties | Metric | English | Comments |
|------------------------|----------------|----------------|---------------------|
| Electrical Resistivity | 1.00e+6 ohm-cm | 1.00e+6 ohm-cm | Specific Resistance |

| Descriptive Properties | Value | Comments |
|------------------------|----------------|----------|
| Number of Filaments | 1600 fil./yarn | |
| Tex | 220 g/1000m | |

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