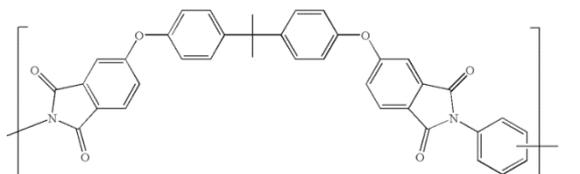


CF-PEI JNM0803

PEI CARBON FIBERS



APPLICATIONS

- ⚠ **Technical material for skilled industrial use only.**
- ⚠ **A high performance printer with enclosure is advised.**

The NANOVIA CF-PEI reference JNM0803 is a high performance PEI Carbon Fibers composite material.

Based on highly stable PolyEtherImide (PEI) chemical backbone, JNM 0803 is a unique carbon alloy of the high temperature polymers family that incorporates distinctive structural features and allow for exceptional possibilities in the control of 3D printability. The JNM 0803 reference represents the pseudo-amorphous products of the NANOVIA composite family, offering the lowest melting point and the slowest crystallization behavior, while keeping Tg close to 180°C. These properties lead to produce material with Resistance, rigidity / high temperature / chemical Resistance and resistance to fire.

PROPERTIES

3D PRINTING

Extrusion Temp.	390 °C.
Plate Temp.	>120 °C
Nozzle	>0.5 mm
Printing Speed	30 mm/s first layer 50 mm/s
Diameter	1.75 / 2.85 mm

*Test must be performed to optimize the printing temperature depending on the 3D printer configuration.

GENERAL

Density	1.26 @ 23°C ISO 1183
Water Abs.	1.25 %
Moist. Abs.	0.7 %

MECHANICAL

Tensile Modulus	4685 MPa (Iso 527)
Flexural Modulus	4950 MPa (Iso 527)
Elong. @ break	3.50 %

THERMAL

Melting point	370°C
VICAT rate A/50	>215 °C
Flammability rating	V-0 @ 3mm UL 94
HDT 0.45MPa	>200°C Iso75Be

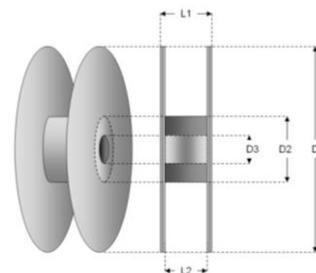
HEALTH & SAFETY

Material not hazardous for health in itself. However, as dust, in case of peeling or sanding, dust may cause skin, eyes and respiratory tract irritation. Users must wear individual protection equipment (mask, gloves...) in case of sanding or milling the printed pieces. Consult MSDS for more data. Always refers to MSDS prior handling.

NOTE

Typical properties must be verified by the end user on final articles. RoHS compliant material. This material complies with FDA 21 CFR 177. JNM0803 is rated ISO 10993 and fit automotive specifications ASTM D6394 SP0112.

PACKAGING



Spool	L1	L2	D1	D2	D3
500 g	55	45	200	105	52
750 g	55	45	200	105	52
1.0 kg	67	59	200	105	52
2.5 kg	100	90	300	210	52

Spools packed in individual boxes, under vacuum with desiccant. Product supplied with batch number and material traceability. Other spools are available on request (up to 25 kg).

CONTACT

