

Windform XT 2.0



Windorm XT 2.0 is a ground breaking carbon fiber reinforced composite 3D printing material known for its mechanical properties. It is particularly suitable in demanding applications such as motorsports, aerospace, and UAV sectors. Surface finish is without finish 6µm and with finish 1.8µm.

Windorm XT 2.0 features improvements in mechanical properties including +8% increase in tensile strength, +22% in tensile modulus, and a +46% increase in elongation at break.

The material allows for the creation of accurate, reliable, and durable prototypes and is perfect for functional applications. It has been rated HB according to the flammability UL 94 test.

Mechanical Properties	Test Method	Metric
Tensile Strength	ISO 527-1	83.84 MPa
Tensile Modulus	ISO 527-1	8928.20
Elongation at Break	ISO 527-1	3.80%
Flexural Strength	ISO 178	133 MPa
Flexural modulus	ISO 178	7338.20%
Impact strength, un-notched (Charpy 23°C)	ISO 179	22.43 KJ/M²
Impact strength, notched (Charpy 23°C)	ISO 179	4.72 KJ/M²
Impact strength, un-notched (Charpy 23°C)	ISO 180	19.26 KJ/M²
Impact strength, notched (Charpy 23°C)	ISO 180	5.30 KJ/M²

Other Properties	Test Method	Metric
Melting point	ISO 11357-2	179.30 °C
HDT 1.82 MPa	ISO 75-2 Type A	173.40 °C
Vicat 10N	ISO 306 Type A50	176.10 °C
Resistivity, Volume	ASTM D257	< 10 ^{^8} ohm
Resistivity, Surface	ASTM D257	< 10 ^{^8} ohm
UTS per density unit		76.43 MPa/(g/cc)

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Energica Eva electric motorbike
3D printed front nose finished and
used for pre-production series

Windorm XT 2.0 is a ground breaking carbon fiber reinforced composite 3D printing material known for its mechanical properties. It is particularly suitable in demanding applications such as motorsports, aerospace, and UAV sectors. Surface finish is without finish $6\mu\text{m}$ and with finish $1,8\mu\text{m}$.

Windform XT 2.0 is the material of choice for those working in the Motorsports (end plates and fences for F1 and IndyCar, alternator covers), Automotive (functioning cooling ducts, mirrors, headlight covers), Aerospace (UAV structures, small satellites, and spacecraft components), and Design fields.

Quick guide

- Windform[®] XT 2.0 is an innovative material which replaces the previous formula of Windform[®] XT in the Windform[®] family of materials.
- Windform[®] XT 2.0 features improvements in mechanical properties including +8% increase in tensile strength, +22% in tensile modulus, and a +46% increase in elongation at break.
- The material allows for the creation of accurate, reliable, and durable prototypes and is perfect for functional applications.
- Windform[®] XT 2.0 has been rated HB according to the flammability UL 94 test.
- Class of material: Composite polyamid based material, carbon filled.
- Technology: Selective Laser sintering (SLS)