

INTRODUCING

CX-PLUS

CX-Plus is a carbon-fiber reinforced material based on polyamide. **CX-Plus** is processed on highly advanced laser-sintering equipment from 3D Systems®.

Typical uses of **CX-Plus**, is in the production of highly rigid components. These applications include wind tunnel testing, functional design models, illustrative models as well as for fixtures and fittings.

CX-Plus parts can be mechanically machined (drilling, sawing, milling...)

The surfaces of components made from **CX-Plus** can be refined by grinding, polishing or coating.



Material properties **CX-Plus**

- Carbon-fibre filled, polyamide based material
- High Young's modulus and impact strength
- Surface finish by grinding, machining, coating
- Mechanical post-treatment possible (drilling, sawing, milling, lathing)
- Conductive material
- Very good long-term stability
- Low moisture absorption



CX-Plus in comparison with DuraForm HST[®] from 3D Systems[®].

		CX-Plus	DuraForm HST[®]
Density (sintered)	g/cm ³	Ca. 1,2	Ca. 1.4
Young`s modulus (bending)	MPa	7330	4500
Bending strength	MPa	132	89
Young`s modulus (tensile)	MPa	8300	5700
Tensile strength	MPa	85	51
Ultimate elongation	%	5,0	4,5
Melting point	°C	180-185	179-183
Thermostability	°C	Ca. 175	Ca. 174

Production technology

- 3D Systems®. Laser Sinter Stations sPro 140
- Print Envelope Capacity: 500mm x 500mm x 450mm
- Parts with homogeneous Material Properties
- High geometrical accuracy (Tolerance about 0,2mm)
- Synchronized systems for constant part quality and high flexibility
- Due to our optimized processes we can offer very attractive prices
- Focus on short reaction times
(typical actual delivery time 2-3 days or faster)



3D-Parts Ltd

For further information on our services, materials and process options, or to discuss your specific requirements, please call or email. We look forward to working with you in the near future,

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