

Stratasys ULTEM 9085

INDUSTRIAL GRADE MATERIALS FOR FDM 3D PRINTING



MATERIAL NAME

Stratasys ULTEM 9085

COLOR

Tan (Natural)

PROCESS

FDM

PRODUCT DESCRIPTION

Stratasys ULTEM 9085 is a flame-retardant, high-performance thermoplastic. It features a high strength-to-weight ratio, excellent heat resistance and high impact strength. It also possesses favorable flame, smoke and toxicity (FST) characteristics.

TYPICAL APPLICATIONS

- Advanced conceptual models
- Manufacturing tools
- Functional prototypes
- Production parts

PRODUCT SAFETY

Engineering plastics are fine to touch under normal circumstances, but a very small number of people may have allergic reactions to the additives in them. When melted at high temperatures, irritating gases may be released.

PRODUCT DELIVERY & WAREHOUSING

- **GOOD RESISTANCE**

Good resistance to many acids, bases, oils.

- **WEAKNESSES**

May be attacked by some chlorinated hydrocarbons, ketones and esters. Strong bases may cause PC to hydrolyze.

PROPERTIES OF PRINTED MATERIAL

Properties	Test Method	Value
Hardness	/	/
Flexural modulus (Mpa)	ASTM D790	X: 2300 MPa Z: 2050 Mpa
Flexural strength (Mpa)	ASTM D790	X: 112 MPa Z: 68 Mpa
Tensile modulus (Mpa)	ASTM D638	X: 2150 MPa Z: 2270 MPa
Tensile strength (Mpa)	ASTM D638	Yield: X: 47 MPa Z: 33 Mpa Ultimate: X: 69 MPa Z: 42 Mpa
Elongation at break	/	/
Poisson's Ratio	/	/
Impact strength notched Izod (J/m)	ASTM D256	X: 120 J/m Z: 48 J/m
Heat deflection temperature (°C)	ASTM D648	HDT @1.82 MPa (264psi): 153°C
Glass transition, Tg (°C)	DSC (SSYS)	186 °C
Coefficient of thermal expansion (/°C)	ASTM E831	65.27 µm/(m·°C)
Density (g/cm³)	/	/

Tips: Want to explore a wider range of materials? Check out <https://www.unionfab.com/materials>



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