

FDM MATERIAL PRODUCTION - GRADE

Fused Deposition Modeling (FDM) – Ultem 9085 / 3D Printing – Additive Manufacturing

Ultem 9085 - 3d manufacturing material is ideal for conceptual modeling, fit and functional prototypes plus end-use parts. Flame Classification is UL 94 – V-0 (1.5 mm, 3 mm).

Technology:	FDM
Material type:	Thermoplastics
Elongation at Break % (ASTM D638):	5.8%
Flexural Strength (ASTM D790):	16,200 psi
Flexural Modulus (ASTM D790):	331,000 psi
Glass Transition Temperature (DMA):	257°F
Heat Deflection (HDT) @ 264 psi, 0.125" unannealed (ASTM D648):	307°F
Impact Strength Notched (ASTM D256):	2.2 ft-lb/in
Impact Strength Un-notched (ASTM D256):	14.6 ft-lb/in
Available Colors:	Black or Tan (Natural).
<u>Net Build Size Parts Up To:</u>	36 x 24 x 36 in. (914.4 x 609.6 x 914.4 mm)
<u>Layer thickness:</u>	0.007 in. (0.178mm) ~0.010in. (0.254mm)
<u>Accuracy for 400mc / 900mc:</u>	±0.005 in. ~ (±.127 mm) ~ ±0.0035 in. ~ (±.089 mm)
Applications:	Form or fit testing, Functional testing, Appliances, Medical device, Less detailed, Industrial, Electronics, Electrical, Applications.

Disclaimer: The data above is general information and may vary from machine to machine or supplier to supplier. All tolerance specifications reflect the approximate range of a process's capabilities and should be viewed only as a guide. Actual capabilities are dependent upon manufacturing, equipment, materials, and part requirements.