

Image of feature

Automatically calculates the Denier from inputted parameters, and display result



Plain Weave

GEODICT

Result File Name (*.gdr) PlainWeave.gdr μm

Weave Shape Domain Threads Solver Settings

☒ Resolve Overlap
☐ Mark Contact Voxels

Warp Thread Weft Thread

Thread Type Name

Profile Type Monofil Elliptical

Material (ID 02) Steel (A36) (Solid) ...

Thread Width / (μm) 100

Height / (μm) 100

Denier

Load Thread Save Thread

OK Cancel

Image of feature(Example)

Silk (1.37 g/cm³)

• The volume of 9000m of fiber
 $\pi * 0.000005^2 \text{ [m}^2\text{]} * 9000 \text{ [m]}$
 $= 0.70686\text{e-}06 \text{ [m}^3\text{]}$
 $= 0.70686 \text{ [cm}^3\text{]}$

• Denier
 $1.37 \text{ [g/cm}^3\text{]} * 0.70686 \text{ [cm}^3\text{]}$
 $= 0.9684 \text{ [g]}$

Plain Weave

GEO-DICT

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Warp Thread Weft Thread

Thread Type Name

Profile Type Monofil Elliptical

Material (ID 02) **Silk**

Thread Width / (μm) **10**

Height / (μm) **10**

Denier 0.9684

Load Thread Save Thread

OK Cancel