

Lubrizol ESTANE 3D TPU M88A

Multi Jet Fusion | TPU | powder

Compiled by FabDigit from manufacturer technical data. Values below belong to this named product; unreported properties are omitted.

Manufacturer: Lubrizol

Source revision: 2023-01-31

Recorded system family: HP Jet Fusion 4200 / 5200 / 5600 series

As-printed colour: White

Test values are typical reported results, not guaranteed design allowables or finished-part certification. Review the complete source for specimen preparation, orientation and conditioning.

Mechanical

PROPERTY	VALUE	TEST / CONDITION
Tensile Strength (Ultimate)	15 MPa	per DIN 53504 / ISO 37; Fresh powder: X 15 / Z 8
Elongation at Break	440 %	per DIN 53504 / ISO 37; Fresh powder: X 440 / Z 125
Hardness, Shore A	88 Shore A	per ASTM D2240; 88 +/- 3, X and Z
Compression Set (22 h, 70 deg C)	27 %	Fresh powder, X direction

Electrical

PROPERTY	VALUE	TEST / CONDITION
Surface Resistivity	180,000,000,000 ohm	per ANSI/ESD STM 11.11; Surface resistance

Selection and finishing

A softer polyether TPU for HP MJF flexible parts and cushioning lattices that need a Shore 88A-class response.

Design: Tune lattice cell size, wall thickness and orientation with representative cycle and compression testing. Preserve powder blend and print-mode details when comparing builds.

Finishing: Reclaimed powder can become more yellow over successive cycles. Approve the acceptable colour range and test any coating or cleaning process on the soft surface.

Source and document scope

Lubrizol manufacturer source reference - 2023-01-31

<https://media.lubrizol.com/-/media/Project/Lubrizol-Corporation/Lubrizol/Master-Site/Engineered-Polymers/Documents/TDS/ESTANE-3D-T-PU-M88A-565-OR-UV-PW-01312023.pdf>

FabDigit product page: <https://www.fabdigit.com/materials/polymer-tpu/lubrizol-estane-3d-tpu-m88a/>

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