

Lubrizol ESTANE 3D TPU M95A

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: March 2021

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.

Physical

PROPERTY	VALUE	TEST / CONDITION
Melting Temperature (Tm)	200 deg C	per Lubrizol DSC
Density	1.1 g/cm3	per ASTM D792; Printed-part specific gravity range 1.10-1.15

Mechanical

PROPERTY	VALUE	TEST / CONDITION
Tensile Strength (Ultimate)	17 MPa	per DIN 53504 / ISO 37; Full print bed, fresh powder: XY 17 / Z 8
Elongation at Break	400 %	per DIN 53504 / ISO 37; Full print bed, fresh powder: XY 400 / Z 90
Hardness, Shore A	93 Shore A	per ASTM D2240; Printed part, 93 +/- 3
Tear Strength	80 kN/m	per ASTM D624; Die C, full print bed

Selection and finishing

A firmer polyether TPU for HP MJF parts that need abrasion resistance, elastic recovery and a Shore 95A-class feel.

Design: Define orientation, bed fill, powder generation and cycle count in the qualification build. Test the actual lattice or wall because the maker says lattice response varies with design.

Finishing: White powder can yellow as it is reclaimed over more cycles. Confirm the accepted colour range and any separate coating or cleaning step without assuming that appearance changes leave flexible performance untouched.

Source and document scope

Lubrizol manufacturer source reference - March 2021

<https://media.lubrizol.com/-/media/Project/Lubrizol-Corporation/Lubrizol/Master-Site/Engineered-Polymers/Documents/TDS/ESTANE-3D-TPU-M95A-545-OR-UV-PW-MAR2021.pdf>

FabDigit product page: <https://www.fabdigit.com/materials/polymer-tpu/lubrizol-estane-3d-tpu-m95a/>

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