

Technical Data Sheet

Product:

- Estane® M88A is a polyether thermoplastic urethane powder developed for HP's 5200/5210 MJF printer platform.
- Estane® M88A provides a flexible and durable printed solution with faster printing speed and easy-to-unpack behavior to maximize printing efficiency for production-scale printing operation.

Multi-Jet Fusion Printed Part Information:

- ESTANE® 3D TPU M88A-565 OR UV PW is a product for HP's 5200 MJF platform.
- Parts for properties listed below were printed with preliminary print mode.

Properties	Estane® M88A on 5200	Unit	Test Method
	100% Fresh Powder		
Printing Properties			
Print Mode	1-pass		
Printing Layer Time	11	sec	
Full-Bed Printing Time	13	hours	
Properties in X			
Hardness (5 sec)	88 ± 3	Shore A	ASTM D-2240
Abrasion Volume Loss	120	mm ³	DIN-53516 / ISO-4649
Tensile Strength	16	MPa	DIN-53504 / ISO-37
Elongation at Break	430	%	DIN-53504 / ISO-37
Flexural Modulus	TBD	MPa	ASTM D-790
Properties in Z			
Hardness (5 sec)	88 ± 3	Shore A	ASTM D-2240
Abrasion Volume Loss	110	mm ³	DIN-53516 / ISO-4649
Tensile Strength	7	MPa	DIN-53504 / ISO-37
Elongation at Break	100	%	DIN-53504 / ISO-37
Electrical Properties			
Surface Resistance	1.8 x 10 ¹¹	Ω	ANSI/ESD STM 11.11
Volume Resistance	8.9 x 10 ¹⁰	Ω	ANSI/ESD STM 11.12

- Listed values are "typical (average) values" and should not/cannot be applied for specification purposes and do not constitute any agreed contractual specification/quality of ESTANE® M88A-565 OR UV PW.
- Listed values were printed with using HP 5200 Multi-Jet Fusion printer and print bed density was approximately 7 %.
- Tensile specimens were printed in Type 2 per ISO-37 or S2 per DIN-53504.

Reclaimed Powder Information:

- Standard refresh rate of ESTANE® 3D TPU M88A is 80% reclaimed and 20% virgin.
- As the powder blend is reclaimed for more printing cycles, the yellowness of the powder blend increases.

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