

MPU 100 Overview



MPU 100 is a white, rigid material for medical use, ideal where a sterilizable and scratch resistant material is needed within approved biocompatible uses.

MATERIAL PROPERTIES Ref TDS for more info.

Tensile Modulus	1200 Mpa
Ultimate Tensile Strength	38 Mpa
Elongation at Break	25%
Flexural Strength	44 Mpa
Impact Strength	29 J/m
Heat Deflection Temp	48°C
Density	1.05 G/mL

STORAGE


Temperature	17 - 25°C (64 - 77 °F)
Packaging	400 ml cartridge

Notes

- Can be used immediately from storage.

RESIN DISPENSING & PRINTING

Supplemental information available.

Ratio	10:1	Burn off	10 ml new cartridge	Notes • Stir with spatula after dispensing if smokiness is a concern.
Speed	1	MMD	No	
Mixing tip	Orange	Pot life	12 hours	
		Release film	Not recommended	

WASHING

Supplemental information available.

Solvent	99% Isopropanol	Manual Process • 2 min orbital shaker at 130 RPM • Mid-wash touch up with swabs (or wipes), compressed air, or spinner. • 2 min orbital shaker at 130 RPM (if necessary). • Air dry or dry with swabs (or wipes), compressed air, or spinner. • 1 min spot clean with swabs (or wipes) or compressed air, as needed. • Air dry or dry with swabs (or wipes) or compressed air.
Exposure	5 min max	
Part Washer	Yes Vertrel™ solvent blend	
Notes • Wash in dedicated solvent & washtub to prevent discoloration from darker resins.		

CURING

Supplemental information available.

Cure start	w/in 15 hrs of printing	UV	N/A	Compatible baking implements • Ceramic baking tray (clean) • Non-stick aluminum foil • Silicone sheets • Pan mesh (may leave small marks)
Salt bake	Yes	Thermal	• Program 2 - Pattern 1 • 4 hours at 100°C	