

## User Manual for Nylon-Like Resin

MagiFlex MFR500 Nylon-Like Resin is a multi-purpose photopolymer resin material for 3D printing with high impact resistance and high tensile toughness. It has the advantages of high flexure strength, high wear resistance, low shrinkage, excellent tensile strength and high success rate. MagiFlex MFR500 Nylon-Like Resin can be used to print figure models, industrial structures, assembly parts, functional parts, BJD dolls, joint components and other engineering fields which need high toughness and friction resistance.

### Parameters:

Model Name	MFR500
Density	1.12g/cm <sup>3</sup>
Viscosity(25°C) (cps)	250-350
Flexure Strength	40.5Mpa
Hardness	80D
Tensile Strength	58.2MPg
Elongation at Break	18.8
UV Wavelength	365-405nm
Curing Time	1.5-3s
Molding Shrinkage	2.1-2.5%
Resin Wash	Alcohol
Shelf Life	18 Months
Color Options	SKin, Grey, White, Black, Red Wax, Clear

\*\*Colors can be customized

**Precautions:**

1. Seal and store the resin at room temperature of 25~35°C, keep away from high temperature or sunlight exposure.
2. Suggested temperature environment for resin usage is 20~35°C. If the temperature is too low, it may affect the printing. It is recommended to pre-heat the resin appropriately before use(not exceeding 80°C)
3. Shake the resin bottle for about 2 minutes until the resin is well mixed before each print.
4. It is recommended to control the alcohol cleaning time within 10 minutes, otherwise it may cause the printing model to crack, deform or become soft. It is recommended to control the post-curing time within 10 minutes, otherwise it may cause the model to age, crack or become brittle.
5. If printing large models or solid models, please add bottom valve printing or vacuum model printing in slicing software, to minimize the probability of model warping.
6. If the resin has not been used in printer for more than 2 days, it is recommended to filter the resin with a filter funnel after stirring evenly in the liquid tank, then pour it back to the resin container.
7. This product should not be taken orally, keep away from children and never touch it with eyes. In Case of accidental contact, rinse with plenty of water as soon as possible. If there is any discomfort, seek for medical treatment immediately.

**Notes:****Before Use:**

Shake the resin to uniform state.

Clean the resin tank and the molding platform to keep the tank bottom in light transmission.

**When using:**

Unscrew the cap and add it to the resin tank according to the equipment requirements.

Setting the 3D printer into correct print parameters for printing.

After use:

After printing, please use matching tools for post-processing, including shovels, diagonal pliers, tweezers, container gloves; Ethanol, lactic acid or isopropanol cleaning liquid.

Post-processing Steps:

Remove the printed model from the platform with a blade.

Wash the printed model ultrasonically and with alcohol for 3-5 minutes, then get it drained.

\*\*For more support or service please contact [support@magiflex.net](mailto:support@magiflex.net)

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