

## User Manual for Rubber-Like Resin

MagiFlex MFR550 Rubber-Like Resin is a multi-purpose photopolymer resin material for 3D printing with high extensibility and high tensile toughness. It has the advantages of high flexure strength, decent resistance to impact & tearing, low shrinkage, excellent tensile strength and high success rate. MagiFlex MFR550 Rubber-Like Resin can be used to print figure models, industrial structures, shoe mold, wearable prototype, buffer airtight components and engineering fields which need high toughness and high extensibility.

### Parameters:

Model Name	MFR550
Density	1.12g/cm <sup>3</sup>
Viscosity(25°C) (cps)	950-1050
Tera Strength	47.6KN/m
Hardness	77A
Tensile Strength	8.2MPg
Elongation at Break%	200
UV Wavelength	365-405nm
Curing Time	4-6s
Molding Shrinkage	<2.1-2.5%
Resin Wash	Alcohol
Shelf Life	18 Months
Color Options	Black, 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)

Yangzhou MagiFlex Co., Ltd