






TWIST Flexible Resin

FABULOUS
MATERIALS

TWIST is a reactive urethane photopolymer resin for flexible Applications. Designed to offer exceptional flexibility combined with high tear strength for a 3D printing photopolymer.

  	<p>Typical features :</p> <ul style="list-style-type: none"> → High elongation → Tear strength 	<p>Applications examples :</p> <ul style="list-style-type: none"> → Dental → Flexible prototypes → Foot-wear applications → Cushioning → Lattice applications
	<p>AM systems : <i>(waves length from 355 to 410 nm)</i></p> <ul style="list-style-type: none"> → Stereolithography (SLA) → Digital light processing (DLP) → Liquid Crystal Display (LCD) 	<p>Key Points :</p> <p>Used for its exceptional flexibility</p>

Delivery form & warehousing

Material developed for UV curing using laser or other suitable UV light sources like UV LEDs. It is also sensitive to sunlight or intense daylight and should be handled accordingly, i.e. with light exclusion before application in the printing system. Store the photopolymer in an opaque container at room temperature. If stored under the mentioned conditions, the photopolymer should be used within 12 months. For further instructions, please refer to the safety data sheet

Product safety

Mandatory and recommended industrial hygiene procedures and the relevant industrial safety precautions must be followed whenever this product is being handled and processed. Product is sensitive to humid environment conditions. For additional information please consult the corresponding Material Safety Data Sheets (MSDS).

For your information

Currently available in transparent. Material is not FDA conform.



TWIST

Flexible Resin

FABULOUS
MATERIALS

General Properties :

Viscosity at 30°C :
Viscosity at 50°C :

Cone / Plate Rheometer ¹
Cone / Plate Rheometer ¹

450 mPas
180 mPas

¹ Determined with TA-Instrument DHR rheometer, cone/plate, diameter 60 mm, shear rate 100 s⁻¹

Tensiles Properties :

Ultimate Tensile Strength
Ultimate Elongation

ASTM D412C
ASTM D412C

4 MPa
84 %

Mechanical Properties :

Tear Strength
Rebound Pendulum

ASTM D624
ASTM D1054

13 kN/m
15-17 %

Hardness :

Shore A

ASTM DD2240 (3s)

73 ShA

Data Sheet_TWIST_resin_Sept 2020.