

## Technical Data Sheet Plexiwire Durable Resin

### Description

Plexiwire Basic Durable resin is the most versatile material of the Plexiwire functional materials. Plexiwire Durable is similar to ABS in its ability to resist impact, compress, bend and stress fatigue without breaking or deforming. Plexiwire Basic Durable is compatible with a wide range of DLP, LCD, and SLA printers.

### Properties

#### Tensile Properties

Tensile Modulus *	1940 MPa	ASTM D638
Ultimate Tensile Strength *	46 MPa	ASTM D638
Elongation at break *	13%	ASTM D638

#### Flexural Properties

Flexural Modulus *	760 MPa	ASTM D790
Flexural Strength *	28 MPa	ASTM D790

#### Impact Properties

Impact Strength Notched Izod *	8.1 kJ/m <sup>2</sup>	ISO 180
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#### General Properties

Shore Hardness *	84 Shore D	ASTM D2240
Heat Deflection Temperature	65°C	
Viscosity	400 cPs	At 25°C Brookfield spindle 3
Density	1.10 g/cm <sup>3</sup>	
Storage	10<T>50°C	

\* Mechanical properties stated based on fully cured material.

### Resin Specification

- UV: 365-405nm
- Printing Method: DLP/LCD
- Container: bottle
- Available colors: black
- Netto weight: 500g

### Typical printing settings

- Time: from 3 sec for layer of 0,05mm.
- Curing: from 60 min.