

E-ToughFlex



E-ToughFlex has a very high flexural modulus and strength and is hydrophobic. Produces super tough parts, with nearly 4x the impact resistance as most engineering plastics. E-ToughFlex has a beautiful surface finish reminiscent of ceramic yet with good abrasion resistance.

Physical Properties		
Viscosity @ 30°C	660 cP	
Shore D	89-90	
Izod Notched Impact	20 J/m	
Heat Deflection Temperature	58°C @ 1.82 MPa	
Vickers Hardness	18 HV	
	Dry Material	After Immersion in Water 2 Days -37°C
Young's Modulus	1340 MPa	1330 MPa
Ultimate Strength	67.5 MPa	68.9 MPa
Strain at Break	16%	14%
Ultimate Flexural Strength	136 MPa	120 MPa
Flexural Modulus	3660 MPa	3300 MPa

Recommended 3D Printer Family³

Envision One cDLM

¹ Per published properties on company literature

² All data provided is preliminary and must be verified by the individual user

³ May not be suitable for all machine models within a 3D printer family. Please refer to specific model online

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HANDLING

For safe handling information on this product, consult the Safety Data Sheet (SDS)

Directions for Use

1. This product is light sensitive; exposure to daylight, UV light or artificial lighting should be kept to a minimum during storage and handling
2. Shake or stir E-ToughFlex well before use due to the possibility that the colorants may separate or precipitate over long storage periods
3. For best 3D printing: Mix the 3D resin before each print. Do not leave resin in printer when not in use. Filter the resin after each 3D print before reuse
4. Excess material can be easily wiped away with non-polar solvents.

Storage

Store product in a cool, dry location, in unopened containers at a temperature between 8°C and 28°C unless otherwise labeled. To prevent contamination of unused product, do not return any material to its original container.



DISCLAIMERS

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