

MATERIAL TECHNICAL DATA SHEET

E-PERFORM[®]

Strong and stiff material with high heat tolerance.

E-Perform is a high stiffness and high heat tolerance material ideal for producing 3D printed injection molds. Printed E-Perform molds are capable of resisting wear from highly abrasive materials, such as fiber filled plastics. It is also ideal for end use parts that require steady performance in high pressure and harsh environments, such as parts for wind tunnel testing.

MATERIAL PROPERTIES*

	UV POSTCURE	UV & THERMAL POSTCURE
Tensile Strength	57 MPa	87 MPa
Tensile Modulus	10,140 MPa	9,000 MPa
Elongation at Break	0.97%	1.4%
Flexural Strength	56 MPa	60 MPa
Flexural Modulus	9,400 MPa	8,700 MPa
Izod Impact, Notched	20 J/m	18 J/m
Water Absorption	0.2%	0.1%
Heat Deflection Temperature @ 1.82 MPa	93 °C	160 °C

RECOMMENDED PRINTER PLATFORMS

- P4K

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-PerFORM 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.

*Specifications are subject to change without notice.

DISCLAIMER

The product for which the data provided herein are furnished for informational purposes only and are believed to be accurate and reliable. Nevertheless, ETEC cannot and will not assume responsibility for the results obtained by others over whose production methods we have no control. thus, it is the user's responsibility to determine the suitability of this product for the user's purpose of any production methods mentioned herein and to adopt such precautions as may be advisable for the protection of property and of persons against any hazards that may be involved in the handling, storage, disposal and use thereof. In light of the foregoing, ETEC specifically disclaims any and all warranties expressed or implied, including warranties of merchantability, fitness for a particular purpose and free from claims of third party patent infringement, arising from the sale, possession, handling, storage, disposal, transportation or use of this product.

ETEC specifically disclaims any liability for consequential or incidental damages of any kind, including lost profits. Neither the product, nor the data or discussion herein of various processes for which, are to be interpreted as an express or implied license under any ETEC patents. ETEC recommends that any and all proposed commercial application(s) using this product be evaluated for reproducibility in the exact manner and on the production equipment with which it is intended to be used before repetitive commercial production use, using this data as a guide.