

E-RE90

Let us
print your
part!¹



EnvisionTEC's Rubber Elastomer E-RE90 is an elastomeric material with a tough rubber-like performance, allowing for the 3D printing of parts previously made from technical foams, rubbers, or polyurethanes. A one-part, one-pot polymer system simplifies storage and processing for a cleaner, safer production environment. This high-performance material is perfect for shoe midsoles and heel cups, seals, door boots, bellows, foam-like lattice structures and impact parts. E-RE90 is also pot stable so there is no wasted resin at the end of the print.

E-RE90 is the toughest 3D printing elastomer on the market, mimicking leading injection molded thermoplastic polyurethanes. This is your solution to 3D printed end parts and products.

Material Properties ²	
Description	Value
Hardness	Shore A 90
Bayshore Resilience	49%
Tear Strength	38 kN/m
Elongation	190%
Toughness	17.9 MJ/m ³
Ultimate Tensile Strength	14 MPa
Glass Transition Temperature	-62°C to +86°C
Viscosity	7900cP

E-RE90

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-RE90 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

The product for which the data provided herein are furnished for informational purposes only and are believed to be accurate and reliable. Nevertheless, EnvisionTEC 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, EnvisionTEC 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.

EnvisionTEC 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 EnvisionTEC patents. EnvisionTEC 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.

envisionTEC

Gladbeck, Germany • Dearborn, Michigan