Simulated Polypropylene

MDT Staff

Tough Material for Polyjet 3D Printers is Ideal for Parts with Flexible Living Hinges or Snap Fits

Stratasys Ltd., a leading global provider of 3D printing and additive manufacturing solutions, today introduced Endur [1], an advanced simulated polypropylene material for use with all Objet EdenV, Objet Connex, Objet500 Connex3 and Objet 30Pro 3D Printers [2].

As a durable and flexible addition to Stratasys' growing materials portfolio, Endur offers both high impact resistance and elongation at break, resulting in tough parts. The material also has a heat-deflection temperature up to 129°F / 54°C (HDT @ 0.45MPa per ASTM D-648-06) and has excellent dimensional stability for its material class.

These properties make the new material suitable for a wide range of form, fit and assembly applications, including:

- Flexible living hinges
- Moving parts
- Assembled parts
- Snap-fit parts such as those used for lids and packaging case applications.

In addition, Endur, which is available in bright white, features an excellent surface finish, for a smooth look and feel. This makes the material well-suited for prototyping household appliances, consumer goods, automotive parts and lab equipment.

"Beta field trials showed high user satisfaction with Endur for models and prototypes of polypropylene parts," says Stratasys product director for materials

and applications, Fred Fischer. “During Beta testing, customers testing Endur acknowledged its toughness and flexibility, and they believed the material would address future needs. Due to Endur’s excellent simulated polypropylene properties, testing customers were able to address a variety of applications, including moving parts, snap-fit components and small cases and containers.”

Find out more about Stratasys Ltd.'s Endur [3].

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http://www.mdtmag.com/product-releases/2014/04/simulated-polypropylene

Links:
[1] http://www.stratasys.com/materials/polyjet/simulated-polypropylene
[2] http://www.stratasys.com/3d-printers/design-series
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