

# 3SP™ Material

## ABS 3SP™ Tough

EnvisionTEC's new ABS 3SP™ Tough is an extremely tough ABS-like 3D printing material for 3SP™ technology. ABS 3SP™ Tough is an ideal solution for a wide variety of applications including snap-fit items, assembly applications, and living hinges which require some elasticity. It is a tough material, suitable for high quality prototypes of items in categories such as automotive and consumer goods as well as stable enough for production-quality end use parts. ABS 3SP™ Tough is ideal for any application which requires a material capable of holding high stress and force. It is also capable of very high speed builds, allowing for large models to be built in under a day without sacrificing its exceptional surface quality.

Material Properties*	
Description	
Heat Deflection Temperature	60 degree C at 0.46 MPa
Impact Izod	16.5 J/m
Description	After post curing 5 min x 2
Tensile Strength	75 MPa
Tensile Modulus	1927 MPa
Elongation at Break	5.2%
Flexural Strength	125 MPa
Flexural Modulus	3016 MPa

\*All data provided is preliminary data and must be verified by the individual user.

Recommended Machines
ULTRA® 3SP™, ULTRA® 3SP™ HD, Xede® 3SP™ and Xtreme® 3SP™

Applications
Aerospace, Animation and Entertainment, Architecture and Art, Automotive, Consumer Packaged Goods, Education, Electronics, Manufacturing, Sporting Goods, Toys

### EnvisionTEC GmbH

Brüsseler Straße 51 • D-45968  
Gladbeck • Germany  
Phone +49 2043 9875-0  
Fax +49 2043 9875-99

### EnvisionTEC, Inc.

15162 S. Commerce Dr.  
Dearborn, MI 48120 • USA  
Phone +1-313-436-4300  
Fax +1-313-436-4303

[www.envisiontec.com](http://www.envisiontec.com)

[info@envisiontec.com](mailto:info@envisiontec.com)

