



Printed Material Torsion Test Sample



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Summary

This is a socket to test media for strength while using a torque-wrench. To test, print the part (with the square-side...

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[torsion](#)

This is a socket to test media for strength while using a torque-wrench.

To test, print the part (with the square-side down and no support), and record the peak torque attained before failure by using this digital torque adapter:

<https://tinyurl.com/y9hgcpqo>

Use a bolt with a 3/4 inch head. If you are metric, 12mm bolts often have 19mm heads, which are 0.748 inches, so within the same tolerance range and acceptable to use.

Video here:

Report results here:

<https://docs.google.com/forms/d/1kriE5LqC3GB6h65gSxKTq0k0ooMnjJq6XBKEWneHj1c>

See results here:

<https://docs.google.com/spreadsheets/d/1JlqLSi4sxZLdA-hHCp6Ow4isoGMNI7nIE9Nmbj1ajWk/edit?usp=sharing>

Please spread this to various 3D printer forums so that we can crowd-source a comparison table of methods to achieve stronger parts.

Category: 3D Printing Tests

Model files



torsiontest-socket.stl

[Find source .stl files on Thingiverse.com](#)

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