



ADDITIVE MANUFACTURING TESTING



A TyRex Technology Family Company

Additive Manufacturing Testing Capabilities

More and more, prototypes as well as production parts and products are now being produced using additive manufacturing instead of traditional injection molding. With that being said, tests of these 3D printed items are essential for comprehensive product design and improvement. Physical characteristics must be determined for each material used by a 3D printer for a project, each 3D printer that uses that material, and for each orientation of the print. Additive manufacturing testing is key to provide the knowledge of how materials work and how designs can be improved for more reliable products. **To that end, ARL can test your 3D printed items to see if they meet the required material properties for:**

- | | |
|---------------------------|-----------------|
| Ultimate Tensile Strength | Deflection |
| Yield Point | Creep |
| Young's Modulus | Shear |
| Failure at Bend | Hardness |
| Failure at Compression | Surface Texture |
| Coefficient of Friction | 3D Scanning |
| Aging | 3D Metrology |

Austin Reliability Labs (ARL)

Your accredited product reliability lab and partner

Backed by an expert staff and test methods accredited to the ISO/IEC 17025 standards, ARL provides the reliability tests your products need and develops test strategies at the right price. We have 22 temperature and humidity test chambers - ready for any type of environmental testing needs.

Our test chambers are available for steady-state stability testing, basic temperature cycling or accelerated stress testing in a variety of sizes to accommodate your products. All chambers feature NIST traceable calibrations and our thermal experts are ready to assist in thermocoupling and real-time temperature monitoring of your products. Our team can also help evaluate your qualification and reliability test plan to make sure the tests you're running are the best for your unique product and its uses. Please contact your ARL representative for more information today!

Our Additive Manufacturing Tests

- ▶ General Reliability
- ▶ Deflection
- ▶ HALT / HASS
- ▶ Shock & Vibe
- ▶ Salt Fog
- ▶ IEC 60529 Standard
- ▶ Altitude
- ▶ Temperature & Humidity
- ▶ UV & Solar



YOUR SUCCESS IS OUR SUCCESS



Your Product Reliability Partner



ABOUT US ...

Our lab is a place where we recognize the hard work and passion that went into the design and development of your product. We have that same passion for excellence, and want to find any problems that your product may have in an effort to perfect it. At **Austin Reliability Labs**, we understand that a reputation is something that builds over time, and we support that by making long-term partnerships with our clients. **With that in mind, we not only write and develop all of the tests that we perform, but, unlike other labs, we also provide pass / fail reports on all of our tests and decipher the results for you in order to maximize your product's success.**

Our full array of testing services include the following:

HALT / HASS

BATTERY LIFE TESTS

QUALIFICATION TESTS

ENVIRONMENTAL TESTS

MECHANICAL TESTS

ADDITIVE MFG. TESTS

CUSTOM TESTS

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