SELECTIVE LASER SINTERING PA 12 MINERAL-FILLED



Product Description

This 25% mineral-filled nylon offers the highest stiffness among Protolabs' selective laser sintering materials. It's an excellent choice when stiffness and high temperature resistance are the most important requirements.

Applications

The material's stiffness and temperature resistance makes it suited for components like armatures and mounting plates.



Key Product Benefits

- Excellent strength to weight performance
- ► High temperature resistance
- Parts can be oriented to achieve maximum strength in X-build direction

Tolerances

For well-designed parts, tolerances of ± 0.010 in. plus ± 0.0015 in./in. for each additional inch can typically be achieved. Note that tolerances may change depending on part geometry.

Properties

Test Method	Value
-	Light Gray
ASTM D792	1.20 g/cm³
ASTM D638, test speed 10mm/min	3,100 ± 400 MPa
ASTM D638, test speed 10mm/min	2,500 ± 200 MPa
ASTM D638, test speed 10mm/min	38 ± 5 MPa
ASTM D638, test speed 10mm/min	32 ± 7 MPa
ASTM D638, test speed 10mm/min	3 ± 1%
ASTM D638, test speed 10mm/min	2 ± 1.5%
ASTM D648	184 °C (363 °F)
ASTM D648	179 °C (354 °F)
	- ASTM D792 ASTM D638, test speed 10mm/min ASTM D638, test speed 10mm/min

* From supplier data sheet



All of the figures contained on this data sheet are approximate and dependent on a number of factors, including but not limited to, machine and process parameters. The information provided is therefore not binding and not deemed to be certified.

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