

MICROFINE™ GREY

PRODUCT SPECIFICATIONS



PRODUCT DESCRIPTION:

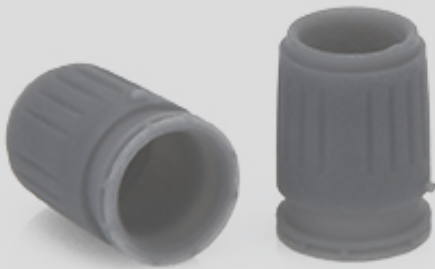
Protolabs' MicroFine™ Grey material is an opaque grey, ABS-like material. It has been custom formulated for micro-resolution stereolithography.

APPLICATIONS:

MicroFine™ Grey enables the production of parts with the finest features and tightest tolerances in the industry. Its grey colour allows for good part and feature visibility, and its mechanical properties make it a durable choice for small part applications.

PHYSICAL PROPERTY DATA:

The following mechanical, electrical, and thermal property data was gathered from the base material used in the formulation of MicroFine™ Grey material. Properties of the final formulated material may differ from those published below.



KEY PRODUCT BENEFITS

- Custom formulated for micro-sized parts
- Ultra-high accuracy
- ABS-like stiffness

PROPERTIES

ASTM Method	Property Description	Metric	Imperial
D638M	E-module (x-y plane)	2600 +- 400 MPa	378000 +- 58000 psi
D638M	Tensile strength (x-y plane)	60 +- 10 MPa	8700 +- 1450 psi
D638M	Elongation at break (x-y plane)	8 +- 4%	8 +- 4%
D790M	Flexural Strength	74.3 MPa	10,770 psi
D790M	Flexural Modulus	2,200 MPa	329,000 psi
D2240	Hardness (Shore D)	85	85
D256A	Izod Impact (Notched)	0.23 J/cm	0.46 ft lb/in
D570-98	Water absorption (20 °C, 50% relative humidity)	0,85 +- 0,15%	0,85 +- 0,15%
D648	HDT @ 0.46 MPa (66 psi)	59° C	138° F
D648	HDT @ 1.82 MPa (264 psi)	50° C	122° F