

MicroFine™ Resin

PRODUCT SPECIFICATIONS



PRODUCT DESCRIPTION

Protolabs' MicroFine material is available in opaque green and gray. This ABS-like material has been custom formulated by DSM for micro-resolution stereolithography.

APPLICATIONS

MicroFine enables the production of parts with the finest features and tightest tolerances in the industry. Color options allow 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 material. Properties of the final formulated material may differ from those published below.



KEY PRODUCT BENEFITS

- Custom formulated for micro-sized parts
- Can produce features as small as 0.0025 in.
- ABS-like stiffness

PROPERTIES

ASTM Method	Property Description	Metric	Imperial
D638	Tensile Modulus	2,600 ± 400 MPa	377 ± 58 ksi
D638	Tensile Strength	60 ± 10 MPa	8.7 ± 1.45 ksi
D638	Elongation to Break	8% ± 4%	8% ± 4%
D790	Flexural Strength	74.3 MPa	10,770 psi
D790	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	Water Absorption	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