



Photopolymer, rigid

Alternative Designations

Rigid Opaque Material, VeroGray RGD850, VeroBlackPlus RGD875, VeroWhitePlus RGD835, VeroYellow RGD836, VeroCyan RGD841, YellowMagenta RGD851

Key Features

Brilliant colour · High rigidity · Resistant to deformation

Description

Photopolymer, rigid is an ideal material for 3D printing because it is strong and durable. It can be used to create parts that are strong enough to be used in a variety of applications, such as medical devices and mechanical components. It is made up of a photopolymer and a rigid substrate. Opaque materials are good material choices for light functional testing, patterns, prototypes and models. This material gives brilliant colour.

Mechanical Properties

Tensile modulus	2200 – 4100 MPa
Tensile strength	40 – 75 MPa
Elongation at break	5.6 – 13.3%
Flexural strength	49 – 121 MPa
Flexural modulus	1.37 – 3.7 GPa
Hardness (Shore D)	73 – 76

Thermal Properties

Heat deflection temperature (1.80 MPa)	74°C
Heat deflection temperature (0.45 MPa)	88°C

Physical Properties

Density	1.17 – 1.18 g/cm ³
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Reference

Datasheets provided by Xometry contain materials sourced through trusted OEMs, material distributors, and databases. Please visit Materialdatacenter.com for further information on this material.