PRODUCT DATASHEET



POM FILAMENT

END USE

Monocure 3D White POM 1.75mm 3D Printer filament (Acetal or Polyoxymethylene) is an engineering plastic with the desirable characteristics of high stiffness and a low coefficient of friction. That low coefficient of friction is where Monocure 3D White POM 1.75mm 3D Printer filaments can have a major impact on what can be produced with fused filament 3D printers: gears, bearings, and moving parts.

PHYSICAL PROPERTIES

Product Code(s) POM-WHITE-1000

Colour(s) White

Melt Flow Index (g/10min) 9±1 (Test Standard - ASTM D1238)

Hardness M Scale 75 (Test Standard - ASTM D785)

Flexural Strength (MPa) 85 (Test Standard - ASTM D790)

Elastic coefficient (MPa) 2700 (Test Standard - ASTM D790)

Tensile Strength (MPa) 62 (Test Standard - ASTM D638)

Extend ratio (%) 45 (Test Standard - ASTM D638)

Impact Strength (MKJ/m²) 6.5 (Test Standard - ASTM D256)

Water absorption ratio (%) 0.22 (Test Standard - ASTM D570)

Molding shrinkage ratio (%) 1.8-2.2

APPLICATION

Because of its good chemical, heat resistance and low friction, POM is used to print moving parts such as gear wheels, ball bearings, etc.

PRINTER SETTINGS

Spool Net Weight: 1kg
Diameter: 1.75mm ± 0.05mm

Print Temperature: 210-250°C

Print Speed: 20-50mm/s

Bed Temperature: +110°C

Heated Chamber Recommanded

Monocure 3D Pty Ltd Unit 16, 364 Park Road Regents Park,NSW 2144, AUSTRALIA All product, product properties, product specifications and data are subject to change without notice to improve reliability, function or design or otherwise.

Monocure 3D Pty Ltd, its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Monocure"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product. See website for full disclaimer, (www.monocure3d/technicaldatasheet/disclaimer)