

# Filament For 3D Printers multicomp<sup>PRO</sup>

RoHS  
Compliant



## Description

Fast printing requires materials that can melt and cool quickly. However, to balance the speed of material melting and cooling, the physical properties of materials printed using fast techniques usually experience some decline. In order to provide 3D printed products with superior mechanical performance under fast printing conditions, we have conducted numerous tests on various rapid formulations. As a result, which is specifically designed to match high-speed printing and offers enhanced toughness.

## Features:

- Stronger resilience
- Fast printing
- Excellent printability
- Lines are not easily brittle and broken

## Applications

- 3D Printing
- Prototyping
- Arts & Crafts
- Production

| Specification                                 |                    |
|---|--------------------|
| 3D Printing Filament                          | PLA+HS             |
| Density(g/cm <sup>3</sup> )                   | 1.24               |
| Heat Distortion Temp (°C, 0.45MPa)            | 54                 |
|   | 5/10               |
| Melt Flow Index (g/10min)                     | 5.2 (190°C/2.16kg) |
| Tensile Strength (MPa) (Z)                    | 32                 |
| Elongation at Break (%) (Z)                   | 2.8                |
| Flexural Strength(MPa) (xY)                   | 83                 |
| Flexural Modulus(MPa) (XY)                    | 2900               |
| IZOD Impact Strength(kJ/m <sup>2</sup> ) (XY) | 5.6                |
| Durability                                    | 4/10               |
| Printability                                  | 9/10               |

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|                            |  |
|----------------------------|--|
| Extruder Temperature       | 210°C to 230°C Recommended Temperature 215°C |
| Bed temperature            | 45°C to 60°C                                 |
| Fan Speed                  | 100%   |
| Printing Speed             | 50 - 300mm/s                                 |
| Heated Bed                 | Optional                                     |
| Recommended Build Surfaces | Making Paper, PVP Solid Glue, PEI            |
| Form                       | Filament                                     |
| Processing method          | 3D Print, FDM Print                          |

## Part Number Table

| Description                  | Colour     | Part Number |
|------------------------------|------------|-------------|
| PLA HS Filament, 1.75mm, 1Kg | Black      | MP013879    |
|                              | Cold White | MP013880    |
|                              | Blue       | MP013882    |
|                              | Red        | MP013883    |
|                              | Grey       | MP013890    |

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