

Technical Data Sheet

Record Model

| Testing Items | Testing Method | Typical Value | Unit |
|------------------------|---------------------------|---------------|-------------------|
| Viscosity | ASTM D445 | 516 | mPa·s(25°C) |
| Density | ASTM D792 | 1.10-1.15 | g/cm ³ |
| Color | - | White | - |
| Temperature Properties | ASTM D648 | 60 | °C (0.45 MPa) |
| Shore Hardness | ASTM D2240 | 88 | Shore D |
| Tensile Properties | Ultimate Tensile Strength | ASTM D638 | 40 |
| | Tensile Modulus | ASTM D638 | 2200 |
| | Elongation | ASTM D638 | 9 |
| Flexural Strength | | 70 | MPa |
| Flexural Modulus | | 2200 | MPa |
| Impact Properties | Notched IZOD | ASTM D256 | 24 |
| | | | J/m |

Notes:

1. It was tested with 3D printed specimen.
2. All test pieces were printed with a RAYSHAPE Shape 1+ 3D printer.

Specimens

Fig 1. Tensile testing specimen

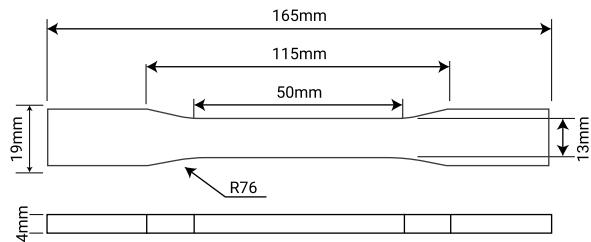
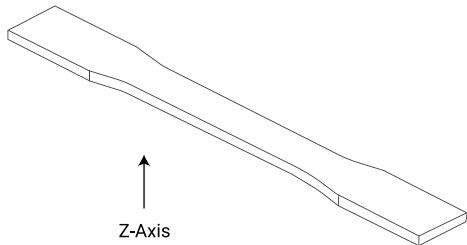


Fig 2. Impact testing specimen

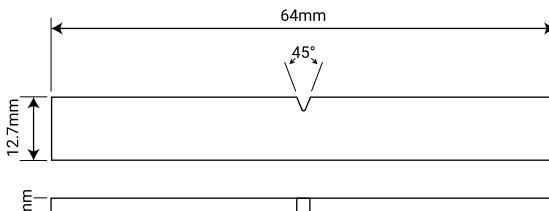
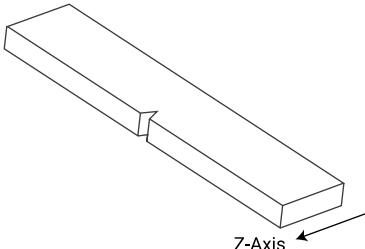
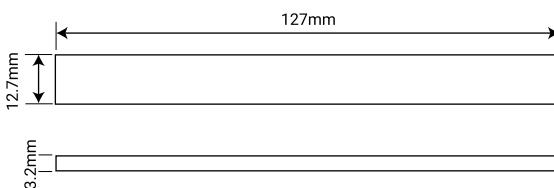
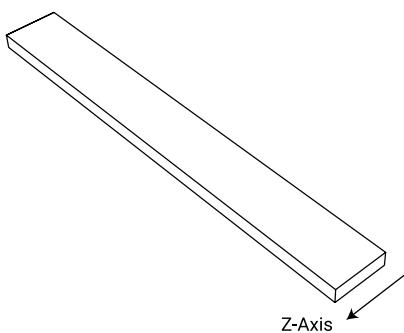


Fig 3. Flexural testing specimen



Disclaimer

The typical values presented in this data sheet are intended for reference and comparison purposes only. They should not be used for design specifications or quality control purposes. Actual values may vary significantly with printing conditions. Enduse performance of printed parts depends not only on materials, but also on part design, environmental conditions, printing conditions, test conditions, etc. Product specifications are subject to change without notice.

Each user is responsible for determining the safety, lawfulness, technical suitability, and disposal/recycling practices of RAYSHAPE materials for the intended application. RAYSHAPE makes no warranty of any kind, unless announced separately, to the fitness for any particular use or application. RAYSHAPE shall not be made liable for any damage, injury or loss induced from the use of Mankati materials in any particular application, as well as for identifying the proper disposal (or recycling) method consistent with applicable environmental laws and regulations.

RAYSHAPE

www.rayshape3d.com 

[in](#) | [Twitter](#) | [Instagram](#) | [Facebook](#) | [YouTube](#)



sales.os@rayshape3d.com
Contact the sales team for more information