



PLA Classic

Modified Polylactic Acid Filament

Product Description

NHH PLA filament is a kind of filament which achieves superior toughness when compared with traditional PLA. It exhibits pleasant surface aspect and very good printability.

General Information

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|-----------------|--|
| Resin Family: | PLA Compound |
| Color: | Miky White (Natural) |
| Form: | Filament |
| Diameter: | 1.75 mm 2.85 mm |
| Feature(s): | <ul style="list-style-type: none">· Pleasant Surface Aspect· Very Good Printability |
| Application(s): | <ul style="list-style-type: none">· Artworks· Leisures and Household Goods |
| Process Method: | 3D Printing (FDM) |
| Compliance: | <ul style="list-style-type: none">· RoHS 2.0· REACH SVHC |

| Physical | Test Method | Units | Typical Value |
|---|-------------|-------------------|---------------|
| Specific Gravity | ISO 1183 | g/cm ³ | 1.25 |
| Melt Mass-Flow Rate, MFR (200°C/ 2.16 kg) | ISO 1133 | g/10min | 9 |
| Durometer Hardness | ISO 868 | Shore D | 78 |

| Mechanical | Test Method | Units | Typical Value |
|---------------------------|-----------------|-------|---------------|
| Tensile Strength at Yield | ASTM D412 Die C | MPa | 70 |
| Elongation at Break | ASTM D412 Die C | % | 6 |
| Tear Strength | ASTM D624 Die C | N/mm | 218 |

| 3D-printed (100% in-fill, XY-direction) | Test Method | Units | Typical Value |
|---|-----------------|-------------------|---------------|
| Tensile Strength at Yield | ASTM D412 Die C | MPa | 52 |
| Elongation at Break | ASTM D412 Die C | % | 5 |
| Flexural Strength | ASTM D790 | MPa | 83 |
| IZOD Impact Strength @23°C (notched) | ISO 180/1A | KJ/m ² | 4 |

| 3D-printing Condition | Test Method | Units | Typical Value |
|--------------------------------|-------------|-----------|---------------|
| Extruder Temperature Range | --- | °C | 190-220 |
| Platform Temperature | --- | °C | RT-60 |
| Predrying Temperature/duration | --- | °C x hrs. | 50 x 2-4 |
| Suggested Platform Material | --- | | Painters Tape |
| Printing Speed | --- | mm/sec | 20-60 |

For additional technical, sales and other assistance: www.nhh.com.hk

*Disclaimer: The information provided in this documentation corresponds to our knowledge on the subject at the date of its publication and may be subject to revision as new knowledge and data becomes available. All values reported are typical values based on sample test results and are not a guarantee of performance. The responsibility to conduct testing to determine suitability of use for the particular process or end-use application remains with the customer. NHH does not warrant or assume any liability with regards to the use of the information presented in this document.

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