



Technical datasheetPrusament Resin Biobased60 Ivory White



Identification

Name	Prusament Resin Biobased60 Ivory White	
Manufacturer	Prusa Polymers a.s., Prague, Czech Republic	
Usage	3D printing	

Recommended settings

Layer height [mm]	Printing time SL1 [s]	Printing time SL1S [s]	
0.025	7.5	3	
0.05	9.5	3.5	
0.1	12	4.5	
First layers	35	50 0	

Recommended curing after print:

Washing - 5 minutes in isopropyl alcohol (>90%)

Drying - 3 minutes at 45 °C

Curing - 3 minutes minimal, 5 minutes optimal



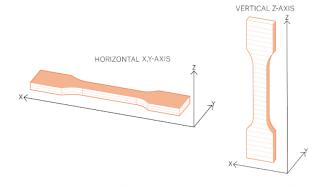
Mechanical properties

Property/print direction	Uncured XY	Cured XY	Method
Tensile strength [MPa]	16.3 ± 1.22	29.7 ± 0.33	ISO 527-1
Elongation [%]	8.6 ± 2	5.3 ± 1.7	ISO 527-1
Tensile modulus [GPa]	0.5 ± 0.06	1.09 ± 0.08	ISO 527-1
Notched impact strength Charpy [kJ/m2]	6.2 ± 1.2	2.8 ± 0.8	ISO 179-1
Flexural strength [MPa]	10.1 ± 0.9	25.3 ± 1	ISO 178
Flexural modulus [GPa]	0.28 ± 0.03	0.82 ± 0.03	ISO 178
Deflection at flexural strength [mm]	7.3 ± 0.26	10.8 ± 0.5	ISO 178

Viscosity (25 °C)	320 - 360 mPa.s	ISO 2431
V13C031ty (20 C)	320 300 mi a.s	130 2431

Original Prusa SL1 and SL1S Speed 3D printers were used to make testing specimens. PrusaSlicer-2.5.0 was used to create G-codes with the following settings: Prusament Resin; layer 0,05mm; faded layers: 3; exposure times: 5/35 (SL1), 1,8/25 (SL1S), without supports and pad; other parameters set the default

Notched impact resistance Charpy - Edgewise direction of blow according to ISO 179-1





Basic safety information

This resin is not meant for contact with food, drinks, or medical use on or in a human body. Always read the material safety data sheet thoroughly. Resins are classified as dangerous chemicals and it is necessary to dispose of them properly in designated containers. Resin bottles (empty or full) must never be disposed of or poured into the general waste.

Manipulation directions

Shake well before use.

Store at room temperature away from direct sunlight.

Use protective equipment for manipulation.

Do not pour the contents of the canister into general waste. Dispose of empty bottles and unused resin at designated places.

Disclaimer

The results presented in this data sheet are just for your information and comparison. Values are significantly dependent on print settings, operator experiences, and surrounding conditions. Everyone has to consider suitability and possible consequences of printed parts usage. Prusa Polymers corp. can not carry any responsibility for injuries or any loss caused by using Prusamen Resin. Before the use of Prusament Resin material read properly all the details in the available safety data sheet (SDS).

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