

MATERIAL DATA SAFETY SHEET

Issued in Australia by Bilby 3D Pty Ltd.

The attached Material Data Safety Sheet has been prepared by the manufacturer outside Australia.

In accordance with Australia WHS regulations the following Australian contact details apply

Section 1: AUSTRALIAN COMPANY DETAILS

In Australia the product is imported and distributed by: Bilby 3D Pty Ltd Mailing Address : Kingsgrove Business Centre, 7/192 Kingsgrove Rd, Kingsgrove NSW 2208 Head Office Address : Kingsgrove Business Centre, 7/192 Kingsgrove Rd, Kingsgrove NSW 2208 Contact Phone: 1800 847 333

Section 2: AUSTRALIAN EMERGENCY CONTACT

Emergency Contact

In the event of an emergency please contact: Poisons Information Centre 24 hour Telephone Advice Line on 13 11 26

Section 3: AUSTRALIAN ISSUE DATA

Date of Issue : 1 March 2020



PolyDissolve[™] S2

PolyDissolve[™] S2 is a dissolvable support for PC, ABS and ASA based filaments from our portfolio. It is specifically engineered to have a perfect interface with these materials while also displaying good solubility.

Physical Properties

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Tested with 3D printed specimen of 100% infill

Material Compatibility

Material	Adhesion with PolyDissolve™ S2
PLA based material from Polymaker's portfolio	N/A
PETG based material from Polymaker's portfolio	N/A
ABS/ASA based material from Polymaker's portfolio	++
PC based material from Polymaker's portfolio	++
PVB based material from Polymaker's portfolio	N/A
TPU based material from Polymaker's portfolio	N/A
PA12 based material from Polymaker's portfolio	+

++ support the model very well

+ generally support the model depending on its geometry

- generally doesn't support the model depending on its geometry

Warning: PolyDissolve S2 needs to be dissolved in 75°C lye, it isn't recommended to work with PVA and PLA based filaments

Recommended printing conditions

Parameter	
Nozzle temperature	230 - 250 (°C)
Build Surface material	BuildTak®, Glass
Build surface treatment	Glue
Build plate temperature	90 - 110 (°C)
Cooling fan	OFF
Printing speed	30-40 (mm/s)
Raft separation distance	0 (mm)
Retraction distance	1 (mm)
Retraction speed	20 (mm/s)
Recommended environmental temperature	Room temperature

Based on 0.4 mm nozzle and Simplify 3D v.4.1. Printing conditions may vary with different nozzle diameters

PolyDissolve[™] S2 can be used without moisture-proof treatment.

It is highly recommended to use the PolyBox[™] when printing with PolyDissolve[™] S2 and to store it in the resealable bag

Aug. 2019



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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. End- use performance of printed parts depends not only on materials, but also on part design, environmental conditions, printing 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 Polymaker materials for the intended application. Polymaker makes no warranty of any kind, unless announced separately, to the fitness for any use or application. Polymaker shall not be made liable for any damage, injury or loss induced from the use of Polymaker materials in any application.