



# Bilby 3D

## **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

# S-Flex 90A

## MATERIAL PROPERTIES

Density	1,22 g/cm <sup>3</sup>	DIN 53479
Shore hardness A	90	DIN 53505
Tensile Strength (Machine Direction)	35 MPa	DIN 53504
Elongation at Rupture (Machine Direction)	500,00%	DIN 53515
Tear Propagation Strength (Machine Direction)	90 N/mm	DIN 53515
Abrasion Resistance	35 mm <sup>3</sup>	DIN 53516

## GUIDELINE FOR PRINT SETTINGS\*

Nozzle temperature	200-230°C
Bed temperature	50-70°C
Active cooling fan	YES (up to 100%)
Layer height**	0.05 - 0.30 mm
Shell thickness**	0.40 - 2.70 mm
Print speed**	15-50 mm/s
Closed chamber	not necessary
Dry box	recommended
Ruby or hardened nozzle	not necessary

\* settings are based on a 0,4 mm nozzle.

\*\* depending on the geometrical complexity

## DESCRIPTION

Spectrum S-Flex 90A is a filament designed for 3D printing, which enables to manufacture flexible items in a much simpler way than with other materials of this type. The appropriate composition of the material provides for good adhesion both between layers and between the printed item and the build platform.

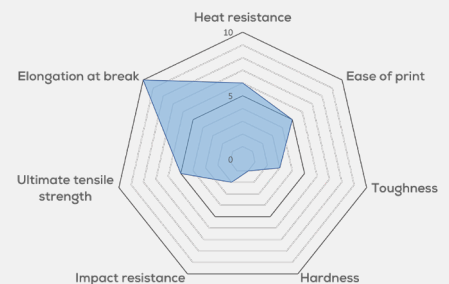
S-Flex 90A material is also characterized by good resistance to UV radiation and high resistance to aging. Flexible filament S-Flex 90A shows resistance to weak and diluted acids and bases.

## FEAUTES

- very good wear and tear resistance
- up to 500% elongation at break
- resistance to many common industrial oils and chemicals
- low shrinkage
- high quality surface
- reduced stringing while the printer is running idle
- stability of shape and material properties in the temperature range -30 to + 60°C

## STORAGE AND SHELF LIFE

Filament should be stored in a dry room at room temperature. Recommended storage temperature is ca. 18-25°C (64.4 -77.0°F). Keep out of moisture, sunlight and direct heat. When stored properly, product has a shelf life of 24 months.



## SUPPORT

If you have any questions or experience any issues, please do not hesitate to contact us at [support@spectrumfilaments.com](mailto:support@spectrumfilaments.com)