



# 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:

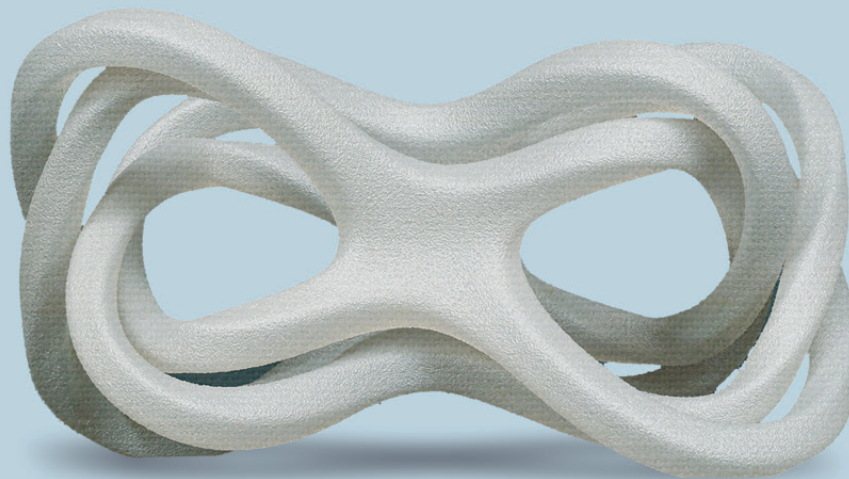
Poisons Information Centre 24 hour Telephone Advice Line on 13 11 26

### **Section 3: AUSTRALIAN ISSUE DATA**

**Date of Issue** : 1 March 2020



# PPSU-S KIMYA



**| DIELECTRIC PROPERTIES | HEAT RESISTANCE : 180°C**  
**| GOOD RESISTANCE TO HYDROLYSIS**

## FILAMENT PROPERTIES

PROPERTIES	TEST METHODS	UNITS	VALUES
Diameter	INS-6712	mm	1.75 ± 0.1
Specific gravity	ASTM D792	g/cm <sup>3</sup>	1.29
Moisture rate	INS-6711	%	<1
Water Absorption (24h)	ASTM D250	%	0.37
MVR (@365°C – 5 kg)	ASTM D1238	g/10min	14-20
Glass transition T <sub>g</sub>	ASTM E1356	°C	220
HDT (1,8MPa)	ASTM D648	°C	207

## PRINT PARAMETERS

<b>PRINT AXIS</b>	XY
<b>PRINT SPEED</b>	15-30 mm/s
<b>EXTRUSION T°</b>	360-400°C
<b>PLATFORM T°</b>	140°C

## PRINTED SPECIMENS PROPERTIES

	PROPERTIES	TEST METHODS	UNITS	VALUES
	T°C max of use	-	°C	180
	Thermal conductivity	ASTM E1530-11	W/mK	0,21
<b>ELECTRICAL PROPERTIES</b>	Dielectric Strength 0.0254mm	ASTM D149	kV/mm	>200
	Dielectric Strength 3.19mm	ASTM D149	kV/mm	15
	Dielectric constant	ASTM D150	-	3,44
	Volume resistivity	ASTM D257	ohms/cm	9,0*1015
<b>TENSILE</b>	Tensile modulus	ASTM D638	MPa	2340
	Tensile strength	ASTM D638	MPa	69,6
	Elongation @ yield	ASTM D638	%	7,2
	Elongation @ break	ASTM D638	%	60 à 120
<b>BENDING TEST</b>	Flexural modulus	ASTM 790	MPa	2410
	Flexural strength	ASTM 790	MPa	91
<b>IMPACT RESISTANCE</b>	Izod Impact Strength (ep. Notched type A)	ASTM D1822	kJ/m2	399

## CERTIFICATION

**FOOD CONTACT APPROVAL**
**EU 10/2011** (for all colors)