



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:

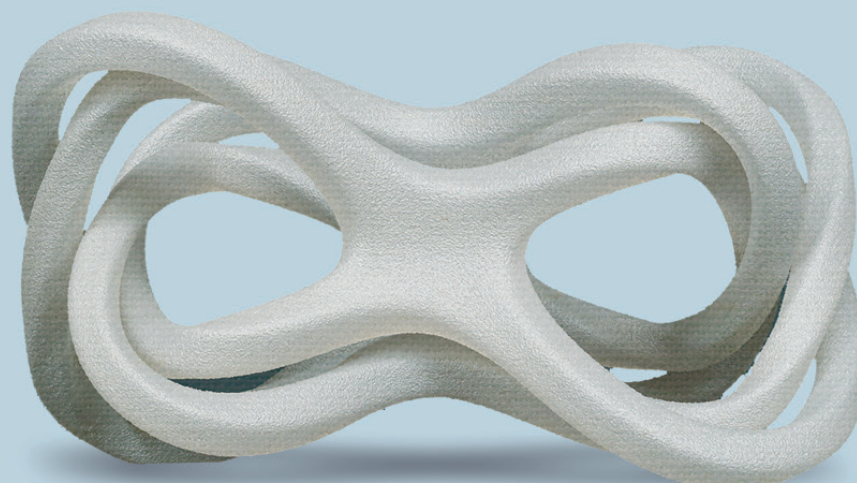
Poisons Information Centre 24 hour Telephone Advice Line on 13 11 26

Section 3: AUSTRALIAN ISSUE DATA

Date of Issue : 1 March 2020



PEI-9085 KIMYA



PEI-9085 FILAMENT is heat resistant and flame retardant UL94-V0

| CHEMICAL RESISTANCE | HEAT RESISTANCE
| FLAME RETARDANT: COMPLIANT WITH UL94-V0

FILAMENT PROPERTIES

DESCRIPTION	TEST METHODS	UNITS	VALUES
Diameter	INS-6712	mm	1.75 ± 0.1 2.85 ± 0.1
Density	ISO 1183-1	g/cm ³	1.34
Moisture rate	INS-6711	%	< 1
Water Absorption (24h)	ISO 62	%	0.39
MVR (@360°C – 5kg)	ISO 1182	cm ³ /10min	65
Glass transition temperature Tg	ISO 11357-1	°C	175
HDT (1,8 MPa)	ASTM D648	°C	153
T°C max of use	-	°C	170
Vicat Softening T°C (Rate B/120)	ISO 306	°C	173

PRINT PARAMETERS

PRINTING SPEED	20-35 mm/s
EXTRUSION TEMPERATURE	350-380°C
BED TEMPERATURE	120-160°C

PRINTED SPECIMENS PROPERTIES

	PROPERTIES	TEST METHODS	UNITS	VALUES
FLAME CHARACTERISTICS	FAA Flammability	FAR 25.853	FAR 25.853	<5
	OSU total heat release (2min)	FAR 25.853	kw.min/m ²	16
	OSU peak heat release rate (5min)	FAR 25.853	kw/m ²	36
	Vertical burn (60s)	FAR 25.853	s	2
TENSILE	Oxygen Index (LOI)	ASTM D2863	%	49
	Tensile modulus	ASTM D738	MPa	3440
	Stress at yield	ASTM D738	MPa	84
	Stress at break	ASTM D738	MPa	74
	Strain at yield	ASTM D738	%	7
BENDING TEST	Strain at break	ASTM D738	%	72
	Flexural modulus	ASTM 790	MPa	2920
	Flexural strength	ASTM 790	MPa	138
IMPACT RESISTANCE	Izod Impact Strength / Notched	ISO 180/1A	kJ/m ²	13
	Charpy impact resistance	ISO 179/2C	kJ/m ²	11

CERTIFICATION

FLAMMABILITY

UL 94 V0 & FAR 25.853