

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

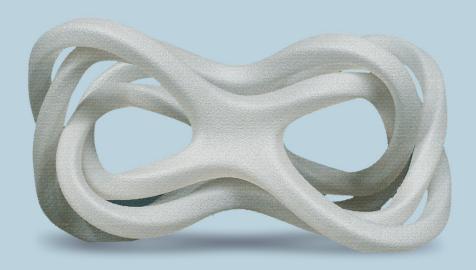
In the event of an emergency please contact:

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

Section 3: AUSTRALIAN ISSUE DATA

Date of Issue: 1 March 2020





KIMYA BREAKAWAY SUPPORT MATERIAL HIPS-R IS MADE OF 100% RECYCLED MATERIAL.

| BREAKAWAY SUPPORT MATERIAL FOR HIGH PERFORMANCE MATERIALS | 100% RECYCLED MATERIAL

FILAMENT PROPERTIES

DESCRIPTION	TEST METHODS	UNITS	VALUES
Diameter	INS-6712	mm	1.75 +/- 0.1
Density	ISO 1183-1	g/cm³	1.03
Moisture rate	INS-6711	%	<0.5
Melt Flow Index (MFI)	ISO 1133-1 (200°C - 5 kg)	g/10min	4.7 - 7.1
Glass transition temperature Tg	ISO 11357-1 (10°C/min - 20 à 260°C)	°C	97



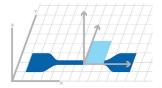


PRINT PARAMETERS AND SPECIMENS DIMENSIONS

PRINTING DIRECTION	XY
PRINTING SPEED	50 mm/s
INFILL	100% - rectilinear
CHAMBER TEMPERATURE	N/A
BED TEMPERATURE	95°C
NOZZLE TEMPERATURE	250°C

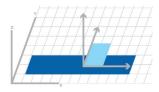
RESULTS

TENSILE TEST



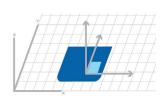
Dim.(mm): 75x12.5x2 Specimen type: ISO 527-5A

BENDING TEST - CHARPY IMPACT



Dim. (mm): 80x10x4

HARDNESS



Dim.(mm): 45x45x4

PRINTED SPECIMENS PROPERTIES

	PROPERTIES	TEST METHODS	UNITS	VALUES
TENSILE TEST	Tensile Modulus	ISO 527-2/5A/50	MPa	1,273
	Strength	ISO 527-2/5A/50	MPa	23.7
	Strain at Strength	ISO 527-2/5A/50	%	1.5
	Stress at break	ISO 527-2/5A/50	MPa	16.7
	Strain at break	ISO 527-2/5A/50	%	11.5
BENDING TEST	Flexural modulus	ISO 178	MPa	1,533
	Flexural stress at conventionnal deflection (3,5% strain)*	ISO 178	MPa	36.2
CHARPY IMPACT	Charpy impact resistance	ISO 179-1/1EA	kJ/m²	7.3
HARDNESS	Shore Hardness	ISO 868	Shore D	76.6

^{*}According to ISO 178, end of the test at 5% strain even if there is no specimen break.