

# Technical data sheet

# Triaprint®

MECHANICAL PROPERTIES		METHOD	UNITS	VALUE
Compression strenght (at max.)	2,4mm/450g	extern lab	N/cm <sup>2</sup>	60
	2,7mm/600g	extern lab	N/cm <sup>2</sup>	130
	3,4mm/900g	extern lab	N/cm <sup>2</sup>	136
	5,7mm/1600g	extern lab	N/cm <sup>2</sup>	176
Compression resistance (at 1000N)	2,4mm/450g	extern lab	N/cm <sup>2</sup>	< 30%
	2,7mm/600g	extern lab	N/cm <sup>2</sup>	< 30%
	3,4mm/900g	extern lab	N/cm <sup>2</sup>	< 20%
	5,7mm/1600g	extern lab	N/cm <sup>2</sup>	< 15%
Impact resistance	2,4mm/450g	Falling Dart Drop		no effect < 0,30m
	2,7mm/600g	Falling Dart Drop		no effect < 0,40m
	3,4mm/900g	Falling Dart Drop		no effect < 0,80m
	5,7mm/1600g	Falling Dart Drop		no effect < 1,00m
Flexural Break resistance	2,4mm/450g	ISO 178	N/mm <sup>2</sup>	3,75
	2,7mm/600g	ISO 178	N/mm <sup>2</sup>	3,2
	3,4mm/900g	ISO 178	N/mm <sup>2</sup>	8,28
	5,7mm/1600g	ISO 178	N/mm <sup>2</sup>	27,4

THERMAL PROPERTIES		METHOD	UNITS	VALUE
Coefficient of linear expansion		ASTMD696	mm/m°C	0,18
Specific Heat		DSC	J/g°C	1,68
Heat deflection temp. (0,46 MPa)		ISO 75	°C	78
Vicat softening point (1 kg) (10N)		ISO 306	°C	148

SHEET TOLERANCE		FIRE PERFORMANCE (FR GRADE ONLY)	
Length	- 0 / + %	Fire behavior	B
Width	+ / - 2mm	Smoke production	s1
Thickness	- 0,2 / + 0,1mm	Flaming droplets	d0
Weight	+ / - 5%		
Squareness	Maximum 1%		

UV PERFORMANCE OUTDOOR		
Standard grade	6 – 12 months	*Mixed post-consumer waste collected from a combination of IPB's die cutting skeletal waste + local customer waste
UV grade	2 – 4 years**	**Detailed UV statement available on request