



TECHNICAL DATA SHEET

Tarfuse® PLA LM

3D Filament

Version No.: 1.1 Date: 04. 2021

General Information

Tarfuse® PLA LM are filaments made from high quality PLA, this is the basic material for 3D CHARACTERISTICS

printing It is characterised by good durability. Its properties allow for precise printing of

printing. It is characterised by good durability. Its properties allow for precise printing of complex parts. It can be used to create prototypes, gadgets, toys, decorations. Parts may be

marked by laser Nd/YAG.

APPLICATIONS Tarfuse® filament for Fused Filament Fabrication.

DELIVERY FORM Tarfuse ®: diameter 1.75±0,05mm; 2.85±0,1mm

PACKAGING Available packing: 1kg (+275 g spool), 2kg (+602 g spool)

COLOUR Natural, basic colours on request.

STORAGE Tarfuse® PLA LM filament must be stored in closed original packaging of the producer in dry

rooms. Protect the packaging's against damage and against the influence of weather

conditions.

NOTICE The data contained in this publication are based on our current knowledge and experience. In

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view of the many factors with may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights etc. given herein may change without prior information and do not constitute the agreed

contractual quality of the product.

It is the responsibility of the recipient of our products to ensure that any proprietary rights

and existing laws and legislation are observed.





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RECOMMENDED PRINT PROCESSING PARAMETERS

Nozzle temperature: 210 - 240°C

Build chamber temperature: heating of the chamber is not required

Bed temperature: 50 - 70°C

Bed material: glass, polycarbonate (PC) mat + PVA glue type

Nozzle diameter: ≥ 0.4 mm Print speed: 30 - 60 mm/s

Physical Properties	Unit	Value	ISO standard	Test conditions	
Melting temperature; DSC	°C	178-180	11357-1-3	10°C/min.	
Glass transition temperature; DSC	°C	60-61	11357-1-3	10°C/min.	
Crystalization temperature; DSC	°C	-/-	11357-1-3	10°C/min.	
Density	g/cm³	1.25	1183	-	
Melt volume-flow rate MVR	cm ³ /10min	6.5	1133	275°C/5 kg	

Unit	XY	XZ	ZX	ISO standard	Test conditions
	Flat	On its edge	Upright		
MPa	54	57	52	527-1,-2	50mm/min
%	3,1	3	2,2	527-1,-2	50mm/min
MPa	3000	3100	2900	527-1,-2	1mm/min
MPa	76	97	60	178	2mm/min
MPa	2800	2980	2800	178	2mm/min
kJ/m²	16	15	-	179-1	1eU
kJ/m²	3	3	-	179-1	1eA
°C	60	60	-	306	50N
°C	65	65	-	75-1,-2	1.8 MPa
	MPa % MPa MPa MPa kJ/m² kJ/m²	MPa 54 % 3,1 MPa 3000 MPa 76 MPa 2800 kJ/m² 16 kJ/m² 3 °C 60	Flat On its edge MPa 54 57 % 3,1 3 MPa 3000 3100 MPa 76 97 MPa 2800 2980 kJ/m² 16 15 kJ/m² 3 3 °C 60 60	Flat On its edge Upright MPa 54 57 52 % 3,1 3 2,2 MPa 3000 3100 2900 MPa 76 97 60 MPa 2800 2980 2800 kJ/m² 16 15 - kJ/m² 3 3 - °C 60 60 -	Unit XY XZ ZX standard Image: Flat or

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Tests were performed at 23°C, unless otherwise specified.

Print processing parameters:

Nozzle temperature 240°C
Build chamber temperature Bed temperature 40°C
Bed material Glass+ PVA
Nozzle diameter 0.4 mm
Layer 0.2 mm
Filling 100%; 45°/45°