

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



www.spectrumfilaments.com

TECHNICAL DATA SHEET

Spectrum Filaments PET-G FX120

The material offered by Spectrum Group Sp. z o.o. has beed developed and adapted to general modeling. Tests performed by Spectrum Group Sp. z o.o. have showed that it is feasible to use the offered product in most 3D printers operating in FDM/FFF technology. Before the first use, it is advisable to print out a hard proof to check if the filament is compatible with user's printer. All shown data are typical properties. The information were processed with the best knowledge of the manufacturer and it is for information only. Users should confirm results by their own tests.

Identification		
Trade name	Spectrum Filaments PET-G FX120	
Chemical name	Copolyester	
Use	Additive Manufacturing	
Origin	Spectrum Group Sp. z o.o.	

Filament specification		
Diameter	1.75mm ± 0.05mm	
Verify your spool	Yes	

Material properties			
Properties	Typical value	Test method	
Density	1.13 g/cm ³	D792	
Tensile Stress at Yield	14 MPa	D638	
Tensile Stress at Break	22 MPa	D638	
Elongation at Yield	38%	D638	
Elongation at Break	400%	D638	
Flexural Modulus	150 MPa	D790	
Tear Strength	350 N	D1004	
Brittleness temperature	<70°C	D746	
Izod Impact Strength, notched	40 J/m (@-40°C)	D256	
Vicat Softening Temperature	170°C	D1525	
Heat Deflection Temperature	120°C	N/A	
Hardness (Shore A)	95A	D2240	
Hardness (Shore D)	55D	D2240	



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Guidline for print settings*		
Nozzle temperature	240 - 260°C	
Bed temperature	80°C	
Active cooling fan	Yes (up to 100%)	
Layer height**	0.10 - 0.25mm	
Shell thickness**	0.40-1.60mm	
Print speed**	30-70mm/s	
Bed adhesive	3DLac, Dimafix, buildTak	
Heated chamber	recommended	

^{*} settings are based on a 0.4mm nozzle

Key features:

- Dimensional stability
- Chemical resistance to lubricants and oils
- Excellent temperature resistance
- Excellent durability
- Low odour
- Steam sterilizable
- Styrene-free
- 95A Shore hardness

^{**} the range depends on the geometrical complexity