

TECHNICAL DATA SHEET

FABRIAL™-R series filaments

TPE for FDM (Fused Deposition Modelling) 3-D Printing

Material	TPE (Thermoplastic Elastomer)	
Color	Natural or coloured	
Filament Diameter	1.75 +/- 0.05mm	2,85 +/- 0,05mm
Filament weight approx.	500g	750g
Filament length approx.	230m	210m
Reorder No.	1000286	1000288

Mechanical properties

(measured with printed specimen)

	Method	UNIT	TYPICAL VALUE
Melting Index	JIS K 7210	g/10 min.	3
Tensile modulus	JIS K 7161	MPa	150
Tensile stress at yield	JIS K 7161	MPa	10
Tensile stress at break	JIS K 7161	MPa	18
Elongation at break	JIS K 7161	%	> 400
Flexural strength	JIS K 7171	MPa	150
Flexural modulus	JIS K 7171	MPa	10
Izod impact strength, notched (at 23°C)	JIS K 7110	KJ/m ²	58
Hardness	Durometer	Shore A	90

Recommended printing conditions

	UNIT	TYPICAL VALUE
Nozzle temperature	°C	140 - 160
Bed temperature	°C	80 - 100
Printing speed	mm/s	5 - 10
Compression zone Temp.	°C	280 - 300
Feeding zone Temp.	°C	260 - 280

Certifications

Cytotoxicity	ISO 10993-5
Skin irritation	Has been tested for irritation and skin sensitization in accordance with ISO 10993-10 standards.

NOTICE: Technical information and data regarding the composition, properties or use of the products described herein is believed reliable. However, no representation or warranty is made with respect thereto except as made by seller in writing at time of sale.

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