

MakerPoint FLEX 45

MakerPoint FLEX 45 is a very flexible rubber replacing filament. The combination of flexibility and mechanical strength combined with durability and good resistance to chemicals and extreme temperatures makes it a unique filament. This BIO performance Thermoplastic Co-Polyester has a high carbon grade of renewable materials resulting in less environmental impact. FLEX 45 exhibits very good UV resistance.

Features:

- Very flexible
- strong
- Long term heat resistance
- Good chemical resistance
- UV resistant

Dimensions		
Size	Ø tolerance	Roundness
1,75mm	± 0,05mm	≥ 95%
2,85mm	± 0,10mm	≥ 95%

Colors
MakerPoint FLEX 45 is available from stock in 5 colors. Special colors are available upon request with a minimum order quantity of 20kg.

3D-printing	
Description	Typical value
Printing technology	FFF
Printing temp.	220-260°C
Heated bed temp.	± 100°C
Cooling fan	100%
Flow Rate	100%

Physical properties		
Description	Test method	Typical value
Density	ISO 1183	1,14 g/cc
Melt volume flow rate	ISO 1183	39 cm ³ /10 min
Stress at break	ISO 527	24
Strain at break	ISO 527	530,00%
Tensile modulus	ISO 527	95 MPa
Impact strength Charpy method	ISO 179	Notched No break
Shore D Harness	ISO 868	45

Thermal properties		
Description	Test method	Typical value
Melting temp.	ISO 11357	180°C

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The data correspond to our knowledge and experience at the time of publication. They do not on their own represent a sufficient basis for any part design, neither do they provide any agreement about or guarantee the specific properties of a product or part or the suitability of a product or part for a specific application. It is the responsibility of the producer or customer of a part to check its properties as well as its suitability for a particular purpose. This also applies regarding the consideration of possible intellectual property rights as well as laws and regulations. The data are subject to change without notice as part of MakerPoints continuous development and improvement processes.



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