

S-Flex 85A

MATERIAL PROPERTIES

Density	1,11 g/cm ³	ISO 1183-1
Shrinkage	0,80%	D 955
Shore hardness A	85	ISO 7619

Mechanical Properties

Tensile strength	40 MPa	DIN 53504
Ultimate elongation	650,00%	DIN 53504
100% Tensile Modulus	7,3 MPa	DIN 53504
300% Tensile Modulus	11 MPa	DIN 53504
Tear strength	60 N/mm	ISO 34-1
Abrasion Resistance	35 mm ³	ISO 4649
Compression set / 70 h @ 23°C	24,00%	ISO 815
Compression set / 24 h @ 70°C	42,00%	ISO 815
Bayshore Rebound Resilience	38,00%	D 2632

GUIDELINE FOR PRINT SETTINGS*

Nozzle temperature	200-230°C
Bed temperature	50-70°C
Active cooling fan	YES (up to 100%)
Layer height**	0.05 - 0.30 mm
Shell thickness**	0.40 - 2.70 mm
Print speed**	20-70 mm/s
Closed chamber	not necessary
Dry box	recommended
Ruby or hardened nozzle	not necessary

* settings are based on a 0,4 mm nozzle.

** depending on the geometrical complexity

DESCRIPTION

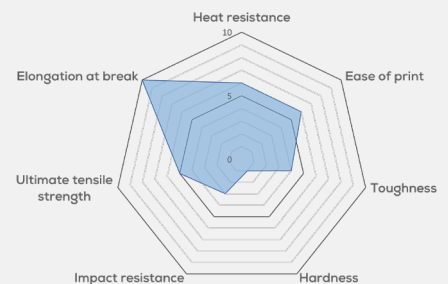
Spectrum S-Flex 85A is a filament based on a thermoplastic polyether polyurethane. The distinguishing feature in the filament name 85A – relates to the hardness of the material on the Shore scale and classifies Spectrum S-Flex 85A in the category of hard elastomers. An additional advantage that allows obtaining a perfect printout is very good adhesion of the first layer of the printed part to the working space, regardless of whether it is made of glass, steel, plastic or other material.

FEAURES

- high resistance to hydrolysis
- up to 650% elongation at break
- high tensile and tear resistance
- low shrinkage
- resistance to many common industrial oils and chemicals
- reduced stringing while the printer is running idle

STORAGE AND SHELF LIFE

Filament should be stored in a dry room at room temperature. Recommended storage temperature is ca. 18-25°C (64.4 -77.0°F). Keep out of moisture, sunlight and direct heat. When stored properly, product has a shelf life of 24 months.



SUPPORT

If you have any questions or experience any issues, please do not hesitate to contact us at support@spectrumfilaments.com