

# Pellet ASA-X CF10

**MATERIAL PROPERTIES**

Specific Gravity	1.1 g/cm <sup>3</sup>	ISO 1183
<b>Mechanical properties</b>		
Charpy impact strength, unnotched*	8 ft.lb/in <sup>2</sup>	ISO 179-1eU
Charpy impact strength, notched*	2.57 ft.lb/in <sup>2</sup>	ISO 179-1eA
Tensile Elongation at Break*	1,80%	ISO 527 (1)
Tensile Strength at Break*	79 MPa	ISO 527 (1)
Elastic modulus tensile*	7580 MPa	ISO 527 (1)
<b>Thermal properties</b>		
VICAT Softening point*	101,6°C	ISO 306
Heat Deflection Temperature		
66 psi*	100,5°C	ISO 75
264psi*	95°C	ISO 75
<b>Electrical properties</b>		
surface	1e2 ohm	ASTM D257

\*injection moulding

**GUIDELINE FOR PRINT SETTINGS\***

Nozzle temperature	235-260°C
Bed temperature	90-110°C
Active cooling fan	0-20%
Closed chamber	not necessary
Dry box	not necessary
Ruby or hardened nozzle	recommended

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

**Disclaimer**

The product- and technical data provided in this datasheet is correct to the best of Spectrum Group Sp. z o.o. knowledge and are intended for reference and comparison purposes only. They should not be used for design specifications or quality control purposes. Actual values may vary according to printing conditions, model complexity, environmental conditions, etc. The user assumes all responsibility for the use of all information provided and shall verify quality and other properties or any consequence from the use of all such information. Typical values are indicative only and are not to be construed as being binding specifications. Spectrum Group Sp. z o.o. shall not be made liable for any damage, injury or loss induced from the use of Spectrum Group Sp. z o.o. materials in any particular application.

**DESCRIPTION**

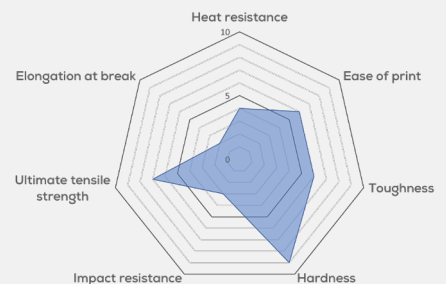
ASA-X CF10 Pellet is characterized by properties identical to the Spectrum ASA-X CF10 filament (composite based on an appropriately selected ASA grade with carbon fiber filling). The material is dedicated to printing models for outdoor use, in conditions of increased exposure to UV radiation, temperature and humidity. The material guarantees printed models constant, high mechanical parameters, especially in terms of hardness and stiffness, even after long-term use in outdoor weather conditions.

**FEAUTURES**

- carbon fibers reinforced (10%)
- excellent resistance to outdoor exposure
- UV resistance
- printable on desktop printers without a heated chamber
- carbon, matt printed surface
- perfect bonding of the layers

**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](mailto:support@spectrumfilaments.com)