

TECHNICAL DATA SHEET

DuraPro ASA CF

DESCRIPTION

DuraPro ASA CF is a weatherproof and UV-resistant copolymer developed for industrial applications and is characterized by high process reliability. The material is carbon fiber reinforced, which makes it ideally suited for mechanically highly stressed components. DuraPro ASA CF is optimized for good layer adhesion, thermal stability, better flow properties and lower warping tendencies. The raw material is approved according to the REACH-, RoHS- Standards.

FEATURES

- Optimized for FFF/FDM-process
- Good mechanical properties
- Good chemical resistance
- Flame retardant according to UL94 HB

PROPERTIES ¹

TEST	METHOD	UNIT	VALUE
Flexural modulus (E-Modulus)	ASTM D790	MPa	4500
Flexural strength	ASTM D790	MPa	78
Tensile modulus (E-Modulus)	ASTM D638	MPa	2500
Tensile strength	ASTM D638	MPa	49
Notched impact strength	ASTM D256	kJ/m ²	100 @ 23°C
Notched impact strength	ASTM D256	kJ/m ²	20 @ -30°C
VICAT A (VST)	ASTM D1525	°C	101*
Melting temperature	ISO 3146-C	°C	210-250
MFR	ASTM D1238	g/cm ³	9
HDT/B	ASTM D648	°C	96
Shrinking	ASTM D955	%	0.3
Density	ASTM D792	g/cm ³	1.14
Hardness Rockwell	ASTM D785	R-Scale	105
Flammability	UL94	HB	-
Carbon fiber content		%vol	12

*Temperature resistance tested at a minimum wall thickness of 4 mm.

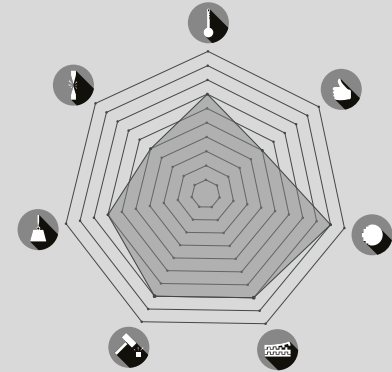
CERTIFICATIONS & ADDITIONAL INFORMATION ²



STORAGE AND SHELF LIFE

Store in a dry room at room temperature (18-27°C / 65-80°F). Keep out of direct heat and sunlight. When stored correctly, this material has a shelf life of 2 years.

1. Additional info in our regulatory, additional information and chemical resistance data sheets.
2. Certifications depend on colors in final product. More info in the additional information sheet.



	TEMPERATURE RESISTANCE	7
	EASE OF PRINTING	5
	VISUAL QUALITY	9
	LAYER ADHESION	8
	IMPACT RESISTANCE	8
	MAXIMUM STRESS	7
	ELONGATION AT BREAK	5

PRINT SETTINGS

Nozzle	225-250°C
Heatbed	100-110°C
Adhesive	recommended
Speed	40-60mm/s
Cooling	0-30%

Recommended settings for printers with a 0.5mm Nozzle. Max. 50% layerheight. Optimal print settings may vary between different printers and also depend on environmental factors.

NEED HELP?

If you have any question about the product and/or you are experiencing an issue, please contact us via support@extrudr.com

