



TECHNICAL DATA SHEET

DURAPRO ASA CF

1. DESCRIPTION

DuraPro ASA CF is a weatherproof and UV-resistant copolymer for industrial applications and is characterised by high process reliability. The material is reinforced with carbon fibres, making it ideal for mechanically highly stressed components. DuraPro ASA CF is optimised for good layer adhesion, thermal stability, better flow properties and lower warping. The raw material is approved according to REACH and RoHS standards

2. FEATURES

- Carbon composite material for performance applications
- UV and weather resistant
- Matte surface
- High rigidity
- Good heat distortion resistance
- Low warping

3. PROPERTIES

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
Unnotched 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-Skala	105
Flammability	UL94	HB	1,5 mm
Carbon fiber content	ASTM D785	%vol	12

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

PRINT SETTINGS

Nozzle	240-260°C
Heatbed	110°C
Adhesive	recommended
Speed	20-200mm/s
Cooling	0-30%
Enclosed Space	yes
Hardened Nozzle	yes
Max. Volumetric Speed	12 mm ³ /s

Note: Due to the abrasive nature of the carbon fibers, a hardened nozzle (e.g., hardened steel or ruby nozzle) is strongly recommended. Additionally, a nozzle diameter of at least 0.6 mm should be used to prevent clogging and ensure smooth extrusion.

4. CERTIFICATIONS & ADDITIONAL INFORMATION



Certifications depend on colors in final product. More info in the additional information sheet.

5. 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.
Additional info in our regulatory, additional information and chemical resistance data sheets.