



TECHNICAL DATA SHEET

DURAPRO ASA

1. DESCRIPTION

DuraPro ASA has been specially developed for industrial applications and is characterised by its high UV and weather resistance. It is therefore particularly suitable for use in the automotive sector and outdoors. The material is fire retardant according to UL94 HB. DuraPro ASA has been optimised for the FFF/FDM process, so the material has good layer adhesion, thermal stability, improved flow properties and low warping.

2. FEATURES

- UV and weather resistant
- Matte surface
- Exceptional mechanical resistance
- Good layer and bed adhesion
- Low warping

3. PROPERTIES

TEST	METHOD	UNIT	VALUE	PRINT SETTINGS
Flexural modulus (E-Modulus)	ASTM D790	MPa	3500 ±200	Nozzle 220-250°C
Flexural strength	ASTM D790	MPa	78	Heatbed 100-110°C
Tensile modulus (E-Modulus)	ASTM D638	MPa	2200	Adhesive recommended
Tensile strength	ASTM D638	MPa	62,2 ±3	Speed 20-200mm/s
Elongation at yield	ASTM D638	%	6	Cooling 0-30%
Nominal elongation at break	ASTM D638	%	20	Enclosed Space yes
Notched impact strength	ASTM D256	kJ/m ²	140 @ 23°C	Hardened Nozzle no
Unnotched impact strength	ASTM D256	kJ/m ²	29 @ -30°C	Max. Volumetric Speed 15 mm ³ /s
VICAT A (VST)	ASTM D1525	°C	96*	
Melting temperature	ISO 3146-C	°C	180-200	
MFR	ASTM D1238	g/cm ³	20	
HDT/B	ASTM D648	°C	96	
Shrinking	ASTM D955	%	0.4	
Density	ASTM D792	g/cm ³	1.05	
Hardness Rockwell	ASTM D785	R-Skala	105	
Flammability	UL94	HB	1,5 mm	

Recommended settings for printers with a 0.4mm Nozzle.
Max. 50% layerheight. Optimal print settings may vary between different printers and also depend on environmental factors.

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

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.