



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
Flexural modulus (E-Modulus)	ASTM D790	MPa	3500 ±200
Flexural strength	ASTM D790	MPa	78
Tensile modulus (E-Modulus)	ASTM D638	MPa	2200
Tensile strength	ASTM D638	MPa	62,2 ±3
Elongation at yield	ASTM D638	%	6
Nominal elongation at break	ASTM D638	%	20
Notched impact strength	ASTM D256	kJ/m ²	140 @ 23°C
Unnotched impact strength	ASTM D256	kJ/m ²	29 @ -30°C
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

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

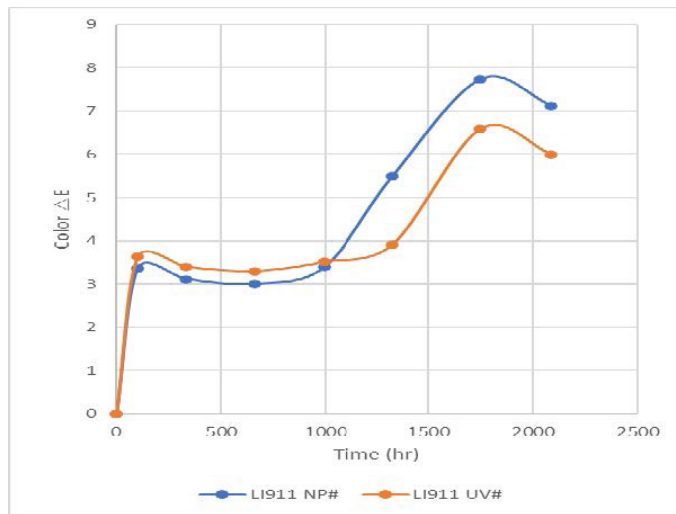
PRINT SETTINGS

Nozzle	220-270°C
Heatbed	100-110°C
Adhesive	recommended
Speed	20-200mm/s
Cooling	0-30%
Enclosed Space	yes
Hardened Nozzle	no
Max. Volumetric Speed	15 mm ³ /s

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.



4. LI911 WEATHERABILITY TEST



	TIME	0	100	300	600	1000	1300	1750	2000
ΔE	LI911-NP#	0	3.365	3.112	3.003	3.388	5.486	7.732	7.124
	LI911-UV#	0	3.630	3.396	3.298	3.507	3.904	6.583	5.998

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.