



# TECHNICAL DATA SHEET

## DuraPro ASA

### DESCRIPTION

DuraPro ASA is a weatherproof and UV-resistant copolymer developed for industrial applications. It is characterized by high process reliability and is ideally suited for mechanically highly stressed components. The material is electrically insulating. DuraPro ASA 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- and FDA-Standards.

### FEATURES

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

### PROPERTIES <sup>1</sup>

TEST	METHOD	UNIT	VALUE
Flexural modulus (E-Modulus)	ASTM D790	MPa	2300
Flexural strength	ASTM D790	MPa	78
Tensile modulus (E-Modulus)	ASTM D638	MPa	2200
Tensile strength	ASTM D638	MPa	49
Elongation at yield	ASTM D638	%	6
Nominal elongation at break	ASTM D638	%	20
Notched impact strength	ASTM D256	kJ/m <sup>2</sup>	140 @ 23 °C
Notched impact strength	ASTM D256	kJ/m <sup>2</sup>	29 @ -30 °C
VICAT A (VST)	ASTM D1525	°C	96*
Melting temperature	ISO 3146-C	°C	180-200
MFR	ASTM D1238	g/cm <sup>3</sup>	20
HDT/B	ASTM D648	°C	96
Shrinking	ASTM D955	%	0.4
Density	ASTM D792	g/cm <sup>3</sup>	1.05
Hardness Rockwell	ASTM D785	R-Scale	105
Flammability	UL94	HB	-

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

### CERTIFICATIONS & ADDITIONAL INFORMATION <sup>2</sup>



### 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	6
EASE OF PRINTING	6
VISUAL QUALITY	7
LAYER ADHESION	8
IMPACT RESISTANCE	8
MAXIMUM STRESS	6
ELONGATION AT BREAK	6

### PRINT SETTINGS

Nozzle	215-240 °C
Heatbed	100-110 °C
Adhesive	recommended
Speed	40-60mm/s
Cooling	0-30%

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.

### NEED HELP?

If you have any question about the product and/or you are experiencing an issue, please contact us via [support@extruder.com](mailto:support@extruder.com)