



TECHNICAL DATA SHEET

DURAPRO ABS

1. DESCRIPTION

DuraPro ABS has been specially developed for industrial applications and is characterised by its high process reliability. It is ideal for the production of mechanically highly stressed components. The material is electrically insulating. DuraPro ABS is optimised for good layer adhesion, thermal stability, better flow properties and low warping. The raw material is approved according to REACH, RoHS and FDA standards.

2. FEATURES

- For industrial applications
- Flame retardant according to UL 94 HB
- Electrically insulating
- High mechanical stability
- Low shrinking and warping
- Excellent layer and bed adhesion

3. PROPERTIES

TEST	METHOD	UNIT	VALUE	PRINT SETTINGS
Flexural modulus (E-Modulus)	ASTM D790	MPa	2550	Nozzle 220-250°C
Flexural strength	ASTM D790	MPa	78	Heatbed 100-110°C
Tensile modulus (E-Modulus)	ASTM D638	MPa	2350	Adhesive recommended
Tensile strength	ASTM D638	MPa	49	Speed 20-200mm/s
Elongation at yield	ASTM D638	%	5	Cooling 0-50%
Nominal elongation at break	ASTM D638	%	10	Enclosed Space yes
Notched impact strength	ASTM D256	kJ/m ²	220 / 23°C	Hardened Nozzle nein
Unnotched impact strength	ASTM D256	kJ/m ²	90 / -30°C	Max. Volumetric Speed 16 mm ³ /s
VICAT A (VST)	ASTM D1525	°C	92*	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.
Melting temperature	ISO 3146-C	°C	180-200	
MFR	ASTM D1238	g/cm ³	21	
HDT/B	ASTM D648	°C	85	
Shrinking	ASTM D955	%	0,4	
Density	ASTM D792	g/cm ³	1.06	
Hardness Rockwell	ASTM D785	R-Skala	110	
Flammability	UL94	HB	1,5 mm	

*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.