



3D SLS

FOR THE PROFESSIONALS

SLS SOLUTIONS





PRINTERS 3-5



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Functions:

- First Industry 4.0 ready SLS printer on the market
- Large print volume
Industrial-level speed (up to 14 mm/h) and quality
- Multi-material – 7 Sinterit powder profiles, 3^dparty materials available
- Efficient workflow (fast warm-up, expert mode, intuitive UI)
- Atex Safety Certificate (as part of Performance set)

Large build volume combined with great printing speed and quality of LisaX provides an ideal solution for companies whose 3D printing needs extend what other compact printer can provide. LisaX is the best choice for prototyping, small batch, customized production, tooling, and other professional uses.

Industry 4 0 is a type of “smart” and connected manufacturing system that is designed to report, predict and detect problems, which increases productivity.

Parameters

Speed	up to 14 mm/h
Build volume	8 l
Min-Max powder loading	1-7 kg
Laser type	IR Fiber Coupled Diode Laser, 30[W]; λ = 976 ± 3 [nm] rated to > 30,000 hrs
Laser scanner type	Galvo
Dimensions	650x540x1300 [mm] (25.6x21.3x51.2 [in])
Weight	145 [kg] (319.7 [lbs])
Max size of print diagonally	398 [mm] (15.7 [in])
Max print volume	TPU based / Flexible material: 130x180x340 [mm] (5.1x7.1x13.3 [in]) PA/PP: 130x180x330 [mm](5.1x6.7x13.3 [in])
Layer height (min-max)	0.075 – 0.175 [mm] (0.003 – 0.007 [in])
Inert gas control system	built-in
Operating voltage	230 [V] AC, 50/60 [Hz], 8 [A] or 100-120 [V] AC, 50/60 [Hz], 15 [A] with converter included
Build Speed	up to 14 [mm/h] (0.55 [in/h])

Fast. Versatile. Accessible.



Industry 4.0



Large print volume



Industrial speed and build size



Easy material change



ATEX for Performance set



Functions:

- High quality of prints
- Compatible with 9 Sinterit SLS powders
- Possibility of using 3rd party materials
- Open system – 32 printing parameters to be modified
- Easy material change

Open environment and access to a wide range of materials make Lisa PRO perfect choice for innovators, researchers, academics... In short – those who want to check and push the limit of what SLS technology can do. Lisa PRO gives users the most flexibility and control over the printing process.

Parameters

Speed	up to 3 mm/h
Build volume	4 l
Min–Max powder loading	1-5 kg
Laser system	IR Laser Diode, 5W; λ = 808 [nm] Rated to > 10,000 hrs
Laser scanner type	XY
Dimensions	690x500x880 [mm] (27.2x19.7x34.6 [in])
Weight	90.0 [kg] (198.0 [lbs])
Max size of print diagonally	313 [mm] (15.7 [in])
Max print volume	TPU based / Flexible material: 110x160x245 [mm] (4.3x6.3x9.6 [in]) PA/PP: 110x160x230 [mm] (4.3x6.3x9.1 [in])
Layer height (min-max)	0.075 – 0.175 [mm] (0.003 – 0.007 [in])
Operating voltage	220–240 [V] AC, 50/60 [Hz], 7 [A] or 100–130 [V] AC, 50/60 [Hz], 15 [A]

Reliable. R&D friendly. Open.



Open parameters



9 available materials



3rd party materials



Printing from 1 kg of powder



Functions:

- Multi-functional workstation, compatible with Compact/Industrial line, or other SLS printers
- Atex Safety Certificate (as part of Performance set)
- Easy depowdering and fast material change
- Efficient powder collecting
Multi-material – 5 sieving programs available

Multi PHS is a one-size-fits-all workstation: it's compatible with all of our printers and can be used with 3rd party machines. Thanks to 5 sieving programs it can be used with morphologically different materials – all the powders in Sinterits offer and others.

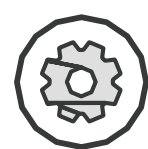
Multi-function Powder Handling Station



Designed for SLS



Multimaterial sift system



Ready for



ATEX for Performance set

Parameters

Powder capacity	20 [l] 6.3 [gal]
Operating Voltage	Operating Voltage 80 - 264 [V] AC, 47-63 [Hz], 6.67 [A] Power Consumption 80 [W]
Powder recovery programs	4
Powder recovery speed	10 [min]-25 [min]
Material change speed	> 30 [min]
Set contents	3 nozzles Anti-noise headphones Powder Wiper, PVC brush Special brush for deep material change cleaning Cotton pads
Dimensions	1000 x 700 x 1700 [mm] (39.4 x 27.6 x 66.9 [in])
Weight	157 [kg] (346.2 [lbs])
Space for installation	1700 x 2200 x 1800 [mm] (66.9 x 86.6 x 70.9 [in])



Functions:

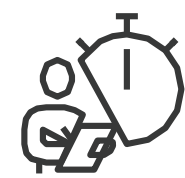
- Safe powder recovery & cleaning
- Explosion proof certified
- High storage capacity
- Absolute HEPA filtration / class M
- Compatible with Multi PHS, separator

ATEX / Intertek Vacuum Cleaner is a perfect solution for efficient collecting of unsintered powder and cleaning the workspace. ATEX safety certificate ensures explosion-proof and effective work.

Safe powder collecting



Safety



Efficient powder recovery



Quick material change



ATEX

Parameters

Suction inlet	50 [mm]
Noise level (EN ISO 3744)	<80 dB [A]
Capacity of collection unit	40 [l]
Filter type	Star, M class filtration
Dimensions	440 x 420 x 780 [mm] (17.3 x 16.5 x 30.7 [in])
Weight	21.5 [kg] (47.3 [lbs])
Certificates	ATEX Z22 / NRTL D2C2 (ETL Intertek listed)

Functions:

- Handsfree powder sieving
- Fully automatic
- 12l container
- Easy to use and clean



Powder Sieve is a useful tool for small batch powder maintenance. With this device, you can sieve unsintered powder and prepare it for another print in about 18 minutes. With just a single button to press, it couldn't be easier to use.



Easy powder sieving



Designed for SLS



Easy to use and clean



Fully automatic



Quick material change

Parameters

Powder capacity 12 [l] (3.17 [gal])

Sieving time 18 [min]

Dimensions 330 x 340 x 600 [mm]
(13.0 x 13.4 x 23.6 [in])

Weight 22.5 [kg] (49.5 [lbs])

Operating Voltage 12 [V], 2 [A], 50/62 [Hz]

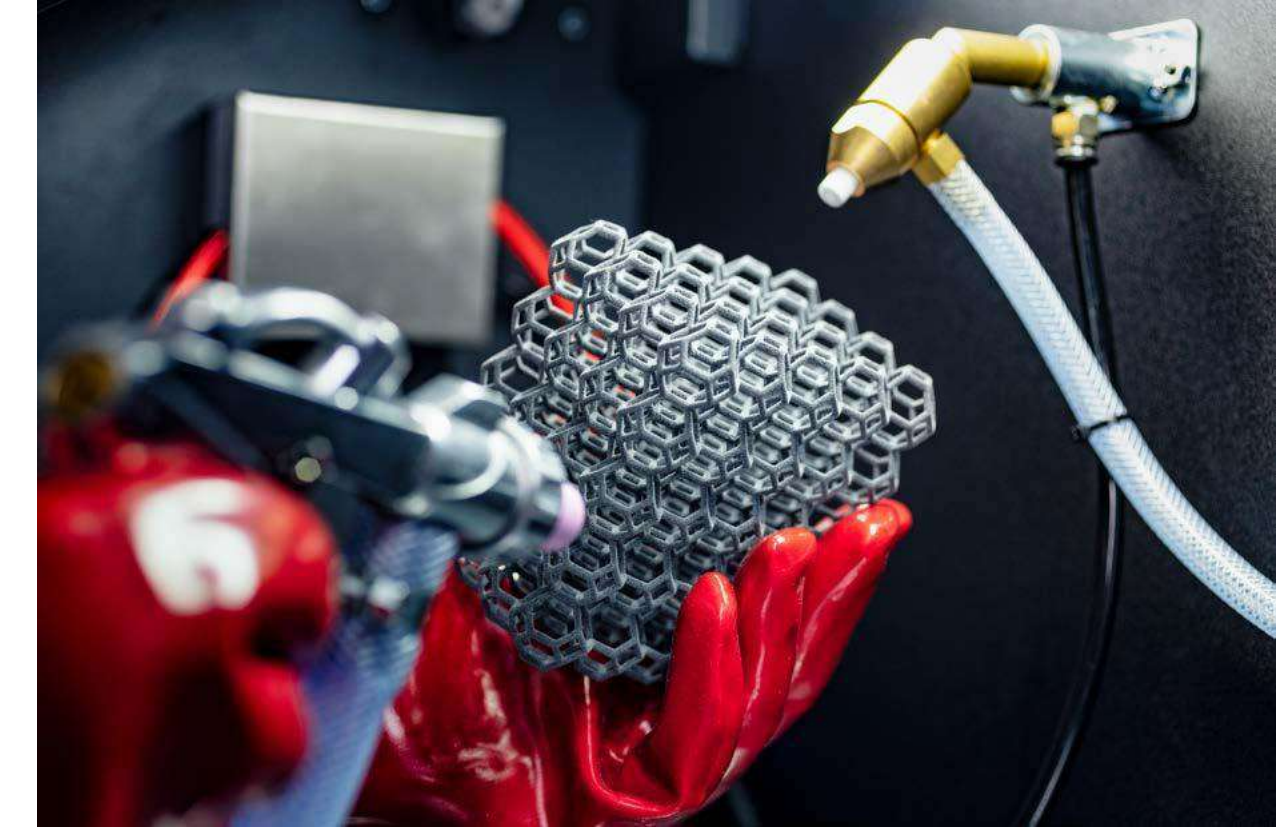
Power consumption 24 [W]



Functions:

- Only sandblaster on the market dedicated for SLS
- Compatibility with ATEX Vacuum Cleaner
- Two sandblasting nozzles
- Low abrasive consumption
- HEPA filtration and fully sealed construction to prevent powder spreading

Only sandblaster on the market dedicated specifically to SLS postprocessing. Sandblaster SLS uses compressed air and glass abrasive to precisely clean the SLS prints of powder residues. It is equipped with HEPA filtration system for increased safety.



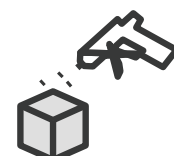
Precise, dust-free post-processing



Designed for SLS



Safety



Adapted to work with small



ATEX for Performance set

Parameters

Powder capacity	10 [kg] (22 [lbs])
Size of internal mesh	6 x 6 [mm] (0.2 x 0.2 [in])
Dimensions	700 x 550 x 720 [mm] (27.6 x 21.7 x 28.3 [in])
Weight	30.5 [kg] (67.1 [lbs])
Operating Voltage	110 / 230 [V] AC, 50/60 [Hz]
Working pressure	5.0 - 8.6 [bar] / 72.5 - 125.0 [psi]
Filter type	HEPA



DEDICATED POWDER TOOLS



Functions:

- Wide range of post-processing tools fit for any task
- Powder management tools for an easy and clean job
- Personal protection equipment

Essential tool kit for working with powder, designed to support Sinterit SLS printing ecosystem.

FOLDABLE TRAY



Functions:

- Ergonomic – size suitable for depowdering IO Box
- Comfortable for powder transfer
- 50l capacity
- Compatible with PHS
- Easy to storage, use and clean

Foldable and light, the tray is easy to store. When unfolded, it creates an optimal workspace for initial post-processing. It's easy to vacuum or pour powder out of and into a bucket. It can be especially useful when working with rarely used materials.

SEPARATOR



Functions:

- High efficiency
- Simple handling
- Universal metal container 12l included, also compatible with 20l container
- Easy to remove and empty

Powder separator is a useful tool for manual depowdering, that helps users recover maximum unsintered powder. It can be connected to Atex Vacuum Cleaner.



Highest performance
and highest safety

Functions:

- First ATEX certified SLS printing set on the market
- New, improved Multi PHS included
- Everything a Pro user needs for fast and efficient printing and post-processing

Based on the fastest compact printer in the world, together with new MultiPHS Performance Set provides a solution for very fast prototyping, small production or effective research. It is the most frequently chosen solution in our offer.

Included:

- LISA X 3D Printer
- Sinterit Studio Software Advanced
- Multi PHS
- ATEX Vacuum Cleaner + separator
- Dust-free Sandblaster SLS
- Dedicated Powder Tools
- Consumables Kit
- STANDARD COMPACT Service plan for 12 months
- Flight Case



Industry 4.0



Open
parameters



Easy
material change



Standard
service



Sinterit
Studio Advanced



ATEX for
Performance set

MULTIFUNCTION SET ATEX CERTIFIED



Highest performance and highest safety

Functions:

- First ATEX certified SLS printing set on the market
- New, improved Multi PHS included
- Everything a Pro user needs for fast and efficient printing and post-processing

Based on the fastest compact printer in the world, together with new MultiPHS Performance Set provides a solution for very fast prototyping, small production or effective research. It is the most frequently chosen solution in our offer.

Included:

- **2x** LISA X Printer
- Powder Sieve
- Multi PHS
- ATEX Vacuum Cleaner + separator
- Dust-free Sandblaster SLS
- **2x** Dedicated Powder Tools
- **2x** Sinterit Studio Advanced
- **2x** Flight case
- STANDARD COMPACT Service Plan for 12 month
- **2x** Consumable



Industry 4.0



Open
parameters



Easy
material change



Standard
service



Sinterit
Studio Advanced



ATEX for
Performance set

**Functions:**

- Complex, open solution for SLS post-processing
- Compatible with LisaX, Nils480 and 3rd party SLS printers
- Maximum powder recovery

Postprocessing set consist of all the peripherals a professional user needs for depowdering, material management and storage. It can be used with any of our printers, but it also works with any SLS machine, so you can easily implement it in your production line.

All you need for SLS depowdering



Easy
material change



Standard
service

Included:

- Multi PHS station
- Dust-free Sandblaster SLS
- DPT
- Foldable tray
- ATEX Vacuum Cleaner + separator
- STANDARD COMPACT Service Plan for 12 months



Functions:

- Open environment, ability to modify printing parameters
- Wide range of materials, 3^d party included
- Great for researchers and education

A professional SLS 3D solution with an open environment and access to a wide range of materials. Most often chosen for prototyping, research and education. It includes everything you need for easy and clean post-processing.

Included:

- LISA PRO 3D Printer
- Platform
- Steve
- ATEX Vacuum Cleaner + separator
- Dust-free Sandblaster SLS
- Dedicated Powder Tools + Foldable tray
- Sinterit Studio Advanced
- Flight Case
- STANDARD COMPACT Service Plan for 12 month

Complete, open solution with access to multiple materials



Easy
material change



Open
parameters



Standard
service



Sinterit
Studio Advanced



BASIC

Functions:

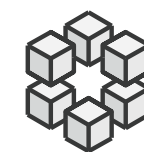
- Best slicing software on the compact SLS market
- Everything you need to prepare your prints
- Modifying basic parameters unlocked
- Auto-nesting function

Sinterit Studio Basic contains all features you need to place models in printer build volume, prepare print jobs and track progress of the process. It also has a few advanced options like auto nesting and simple printing modifications.

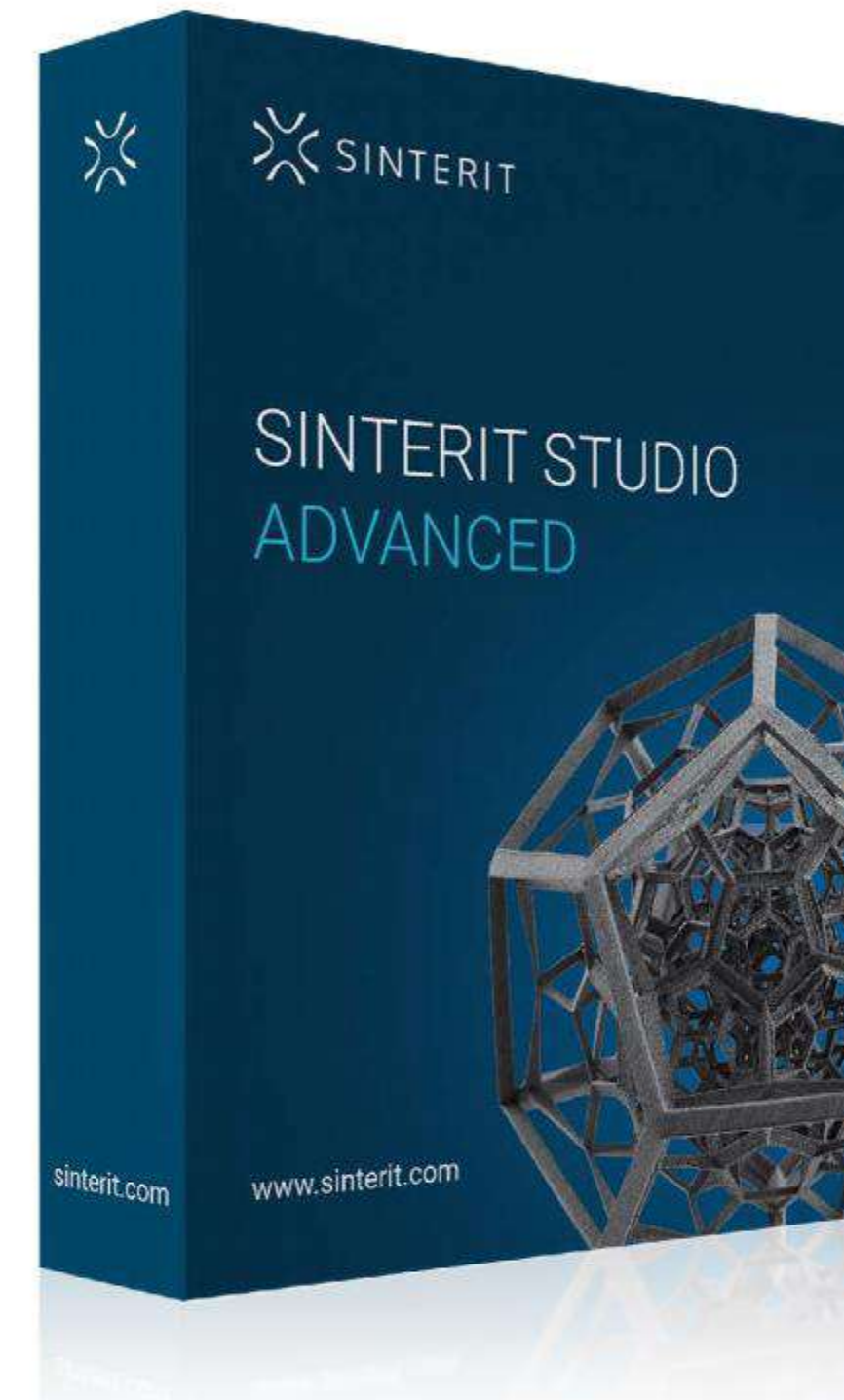
Slicer, printer panel, printing manager



Predefined profiles



Auto nesting



ADVANCED

Functions:

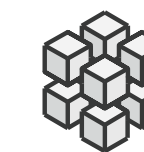
- Open parameters – 32 parameters to control
- 10 ready-to-use powder profiles for high-quality prints
- Open powder profiles
- Expert Mode
- Industry 4.0 compatibility

Sinterit Studio Advanced is a professional solution that takes the preparation stage to the next level. It gives users 10 ready-to-use powder profiles, and the ability to modify them and create new ones depending on their needs. The Advanced version also unlocks features that proved essential in professional and industrial environments: like industry 4.0 compatibility and expert mode.

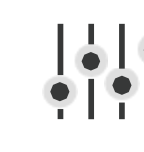
Smart tool for professionals



Predefined profiles



Auto packing advanced



Open parameters



Industry 4.0



Expert mode

SINTERIT SERVICE PLANS

12

included

STANDARD:

COMPACT SERVICE PLAN for 12 months

- After sales support for all ordered products in set
Consumable needed to cover 400h of printing
- No option to extend



12

24

€3 990 / €5 990

PREMIUM:

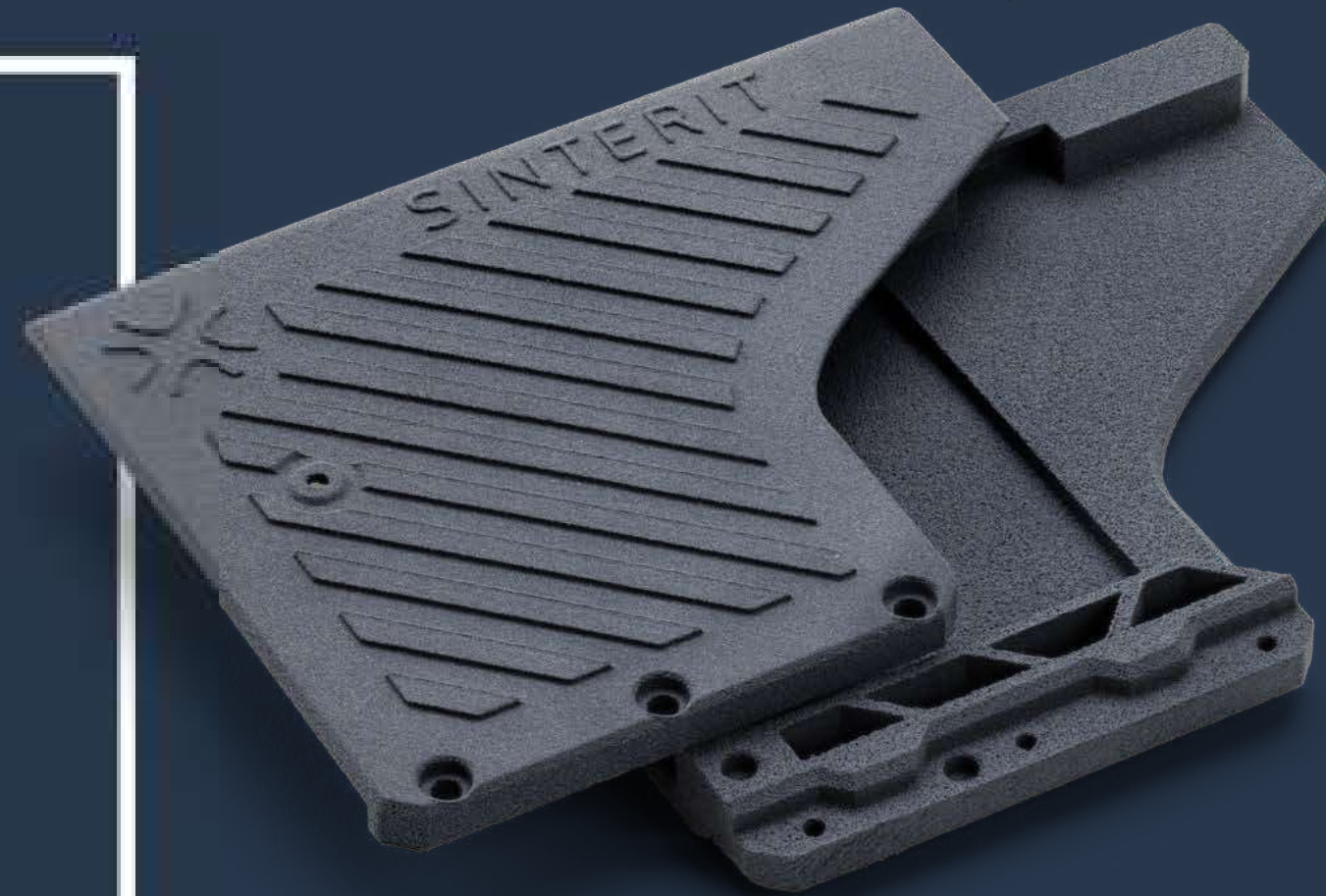
COMPACT SERVICE PLAN for 12/ 24 months for all devices in the set!

- 2 sessions of training BASIC + ADVANCED
- Remote diagnostics
- Consumables to cover 2000 h / 12 months of printing, worth
 - LISA X - €1590
 - LISA / LISA PRO – €590



POWERED BY BASF®

PBT
OPTIMAL



A material with high rigidity, good sizing, and electronic insulation. Good price level ensures high ROI on printed parts.

Functions:

- very good dimensioning accuracy
- biocompatible
- Excellent mechanical properties
- high chemical resistance

Applications:

- final parts
- Functional prototypes
- jigs and fixtures
- parts with very good dimensioning

powered by



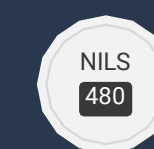
Cost effective



Electrostatic insulation

Compatibility:

The presented range of materials and compatibility with selected printers may change. For a binding offer please contact your local distributor or Sinterit directly.



PA12 INDUSTRIAL



A high resistance nylon 12 with very good dimensioning accuracy of prints. Perfect for functional prototyping, jigs and fixtures and end use parts.

Functions:

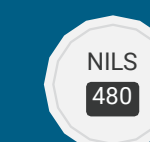
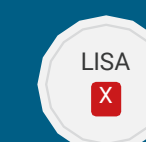
- very good dimensioning accuracy
- biocompatible
- excellent mechanical properties
- high chemical resistance

Applications:

- final parts
- functional prototypes
- jigs and fixtures
- parts with very good dimensioning

Compatibility:

The presented range of materials and compatibility with selected printers may change. For a binding offer please contact your local distributor or Sinterit directly



Strenght

PA12 SMOOTH



A cost effective nylon 12 powder with excellent surface resolution. Perfect for detailed objects and general prototypes.

Functions:

- good quality-to-price ratio
- excellent quality print surface and details
- high chemical resistance

Applications:

- detailed printouts
- complex spatial shapes
- structural or mechanical elements
- functional prototypes or final parts
- chemically resistant objects

Compatibility:

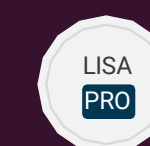
The presented range of materials and compatibility with selected printers may change. For a binding offer please contact your local distributor or Sinterit directly



Strenght



Smooth & Details



POWERED BY BASF®

PA11 ONYX



Bio-derived nylon powder with great mechanical properties and impact strength. Great for elements working in difficult conditions.

Functions:

- high mechanical strength
- high impact strength
- dimension stability
- high ductility

Applications:

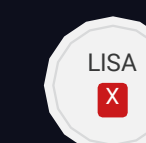
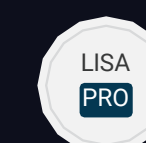
- prototypes with great mechanical properties
- snap-fit designs
- end-use parts
- living hinges
- toolings

powered by



Compatibility:

The presented range of materials and compatibility with selected printers may change. For a binding offer please contact your local distributor or Sinterit directly



Chemical resistance



Impact resistance

POWERED BY BASF®
PA11
CF



One of the strongest and most versatile materials available on the powder market dedicated to SLS printing technology.

Functions:

- tensile and flexural strength
- thermal resistance
- impact resistance
- good elongation at break
- good chemical resistance
- good surface quality
- high stiffness

Applications:

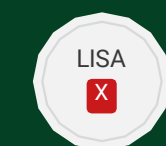
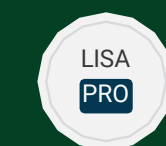
- production maintenance: replacement parts, fixtures, jigs
- automotive: high-performance parts, metal replacement parts
- extreme applications: motorsports, lightweight structures, high temperature

powered by



Compatibility:

The presented range of materials and compatibility with selected printers may change. For a binding offer please contact your local distributor or Sinterit directly

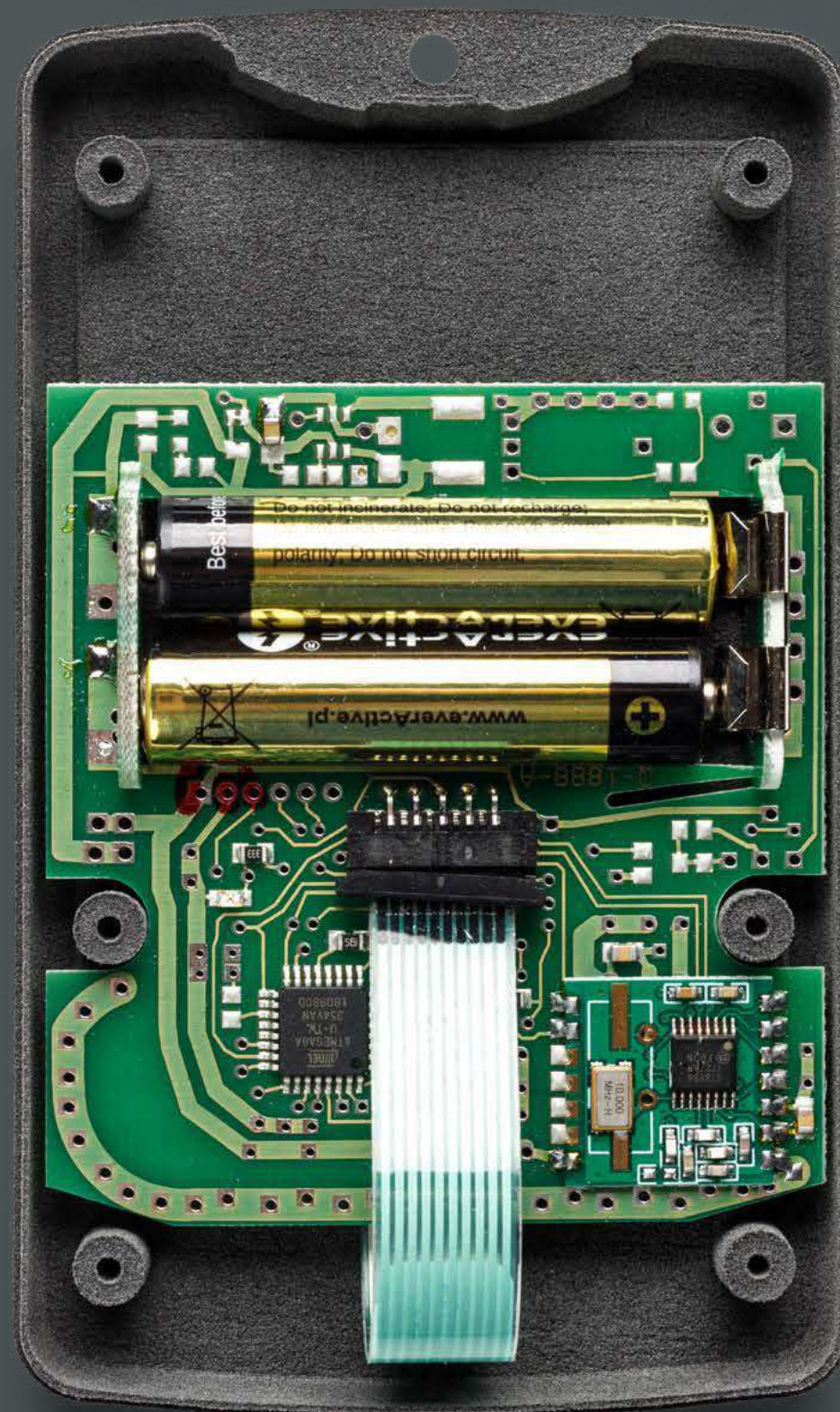


High temperature



High performance

POWERED BY BASF®
PA11
ESD



Bio-sourced nylon material with heat resistance and ESD functionality. Dedicated for electrostatic safe parts for electronic and automotive industries

Functions:

- antistatic properties
- better thermal properties
- dimension stability

Applications:

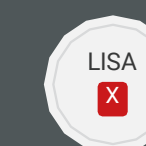
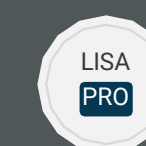
- tools and testers in electronics production
- electronic casing
- automotive parts
- high-accuracy parts

powered by



Compatibility:

The presented range of materials and compatibility with selected printers may change. For a binding offer please contact your local distributor or Sinterit directly



Chemical resistance



Electrostatic discharge

PP POLYPROPYLENE



Chemical
resistance



Water
resistance

PP material with good mechanical properties. Dedicated for prototyping of PP parts, as well as functional parts utilizing chemical resistance, weldability and ductility.

Functions:

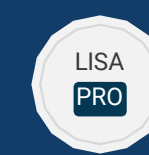
- great chemical resistance
- low density enabling buoyancy
- recyclability
- suitable for pneumatics
- weldability with other PP parts

Applications:

- detailed printouts
- complex spatial shapes
- structural or mechanical elements
- functional prototypes or final parts
- chemically resistant objects

Compatibility:

The presented range of materials and compatibility with selected printers may change. For a binding offer please contact your local distributor or Sinterit directly



FLEXA BLACK



General purpose elastic TPU material for prototyping.
Reasonable elongation with ease of use.

Functions:

- flexible prints with increased extensibility
- adjustable hardness
- 100% reusable

Applications:

- standard rubber items
- prototypes and design
- shock and vibration absorbers
- protectors

Compatibility:

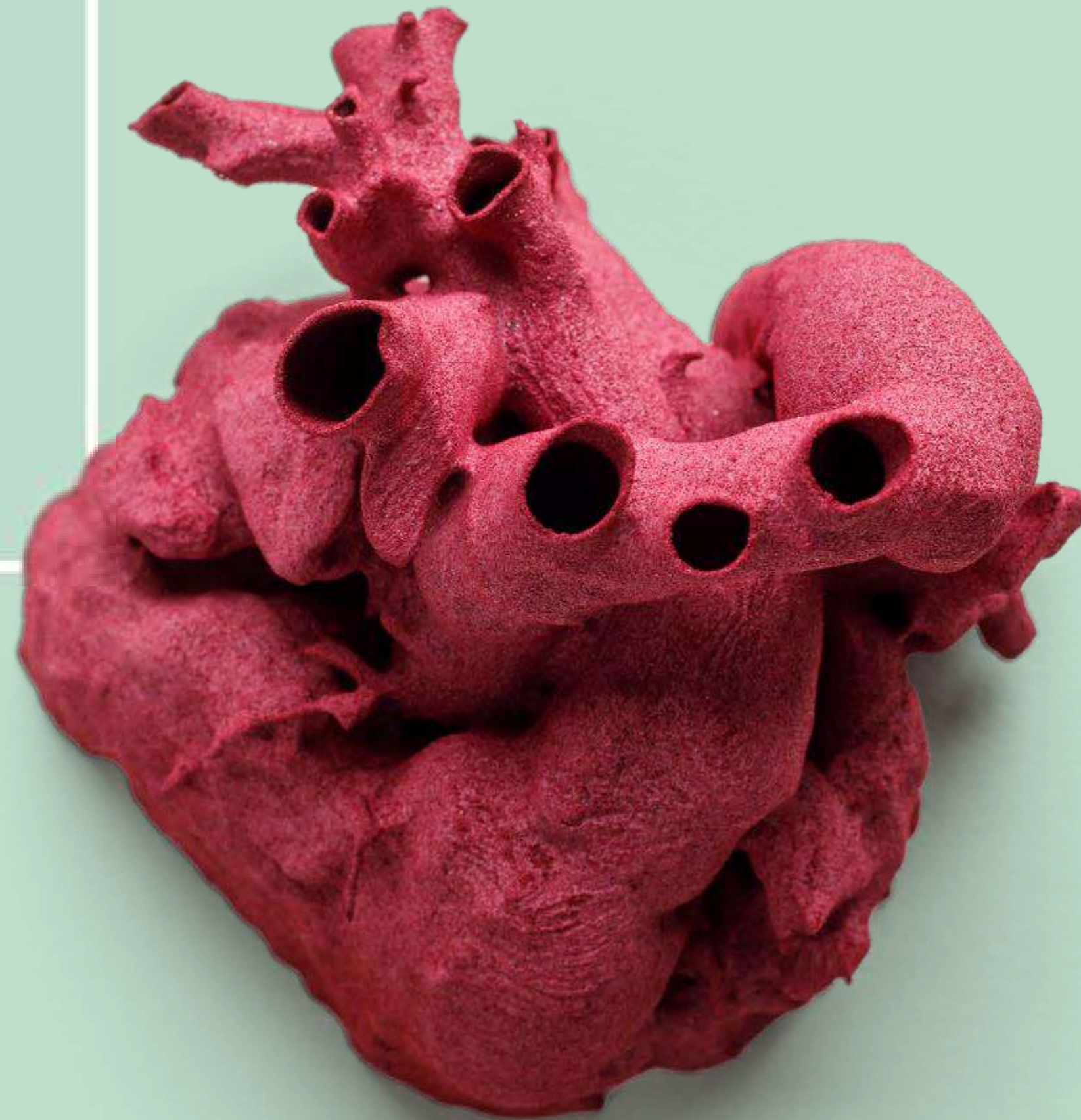
The presented range of materials and compatibility with selected printers may change. For a binding offer please contact your local distributor or Sinterit directly



Adjustable
hardness



FLEXA BRIGHT



Dedicated rubber for high-elongation parts with possibility to dye into colors.

Functions:

- flexible
- dyeable
- brightly colored

Applications:

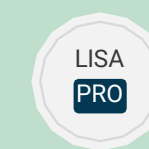
- pre-surgery and training printouts in the medical industry
- flexible prototypes
- clothing parts
- mock-ups and models

Compatibility:

The presented range of materials and compatibility with selected printers may change. For a binding offer please contact your local distributor or Sinterit directly.



Bright color
Dyeable



FLEXA
SOFT



Soft material that could be used in design, art and simulation of highly soft materials.

Functions:

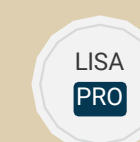
- low Shore hardness
- elastic
- soft to touch

Applications:

- vibration dampers
- soft elements
- fashion design
- haptic-touch parts

Compatibility:

The presented range of materials and compatibility with selected printers may change. For a binding offer please contact your local distributor or Sinterit directly.



Soft to touch
Low shore hardness

POWERED BY BASF®
FLEXA
PERFORMANCE



TPU with high strength and flexibility, ideal for use in gaskets, flexible joint covers, vibration dampers and others where the strength of the flexible material is significant.

Functions:

- very good tear resistance
- excellent mechanical properties
- resistant to repeated bending
- chemical resistance

Applications:

- shoe soles and insoles
- elements of flexible covers in vehicles
- seals
- production tools

powered by



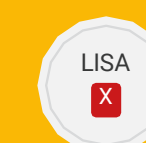
Excellent
mechanical
properties



Resistant
to repeated
bending

Compatibility:

The presented range of materials and compatibility with selected printers may change. For a binding offer please contact your local distributor or Sinterit directly.



Next to you

60 distributors in 60 countries provide advice on the selection and implementation process as well as after-sales service.

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■ Distributors network