

ADVANCED  
RAW MATERIALS

ADVANC3D

Materials

ADSINT®

## HIGH PERFORMANCE MATERIALS FOR LASER SINTERING MACHINES

Development, production and customisation  
of Laser Sintering materials



[ADVANC3DMATERIALS.COM](http://ADVANC3DMATERIALS.COM)

# ADSINT®

**ADSINT®** is a high performance powder range developed specifically for **Selective Laser Sintering (SLS)**. AdSint® is compatible with all industrial plastic Laser Sintering equipment and Desktop SLS machines. AdSint® offers a vast variety of plastic powders for the SLS technology enabling an excellent quality and **smooth surface** to your sintered parts. Our R&D has been challenged to develop powders with an excellent surface quality and a **low refresh rate** of the powder. As part of our service, with the trial of our material, we offer you on-site technical support for adapting your machine parameters to our powders.

**ADVANC3D MATERIALS IS YOUR PARTNER FOR THE LASER SINTERING MATERIALS.**

## PRODUCT RANGE

**ADSINT PA12** Standard grade. Natural / Extra white / black

**ADSINT PA12 GB30** Higher stiffness, lower cost

**ADSINT PA12 LW** Light Weight and lower cost per part

**ADSINT PA12 HT** High Temperature, metallic appearance

**ADSINT PA12 CF** Conductive, high stiffness

**ADSINT PA11 NATURAL /BLACK** (In the mass), Medical grade (nat)

**ADSINT PA11 GB30** Higher stiffness

**ADSINT PA11 CF** Conductive, mechanical properties

**ADSINT TPU 90** Flexible grade

**ADSINT TPU LS** Low smoke grade

**ADSINT PA 12 ESD** Antistatic

**Coathylene PS**

## DEVELOPMENT GRADES

**ADSINT PP FLEX** Good elongation at break

**ADSINT TPU** Other shore hardnesses

**ADSINT PA12 FR** UL94VO

**ADSINT PA12 XHT** Extra high resistance grade



## CUSTOM GRADES

We believe that one of the key points of the Laser Sintering Technology is to enlarge the polymer powder portfolio to offer solutions to different applications.

**Do you need a special powder to meet your requirements?** We develop it and produce it for you.

**Do you need a tailor-made product to replace another technology?** All kinds of materials, special effects, chemical resistances, special properties, certificates ... challenge us! Available for orders from 20kg.

***We develop a product for you and make it work on your SLS equipment!***

**Do you have an idea, an application, a requirement, do you need exclusivity?**

Let's make it possible and confidential!

## LASER SINTERING POWDERS

Choosing the correct powder for your part means ensuring cost-savings and customer service.

**Advanc3d Materials** is your expert technical partner through this process:

- Advice in selecting the best product for your application
- Strong chemical background
- Wide range selection
- Offering custom grades

Product	Impact Strength	Flexural modulus	EI@break (%)	Melting T°C	Heat resistance (HDT@0,45MPa)	Easiness of process	Cost per part	Refresh Rate	Comments
PA11	++++	1400	37%	201°C	150°C	+++	€€€€	25%	Medical and food contact approval
PA11HT	++	2200	15%	201°C	200°C	+++	€€€	25%	Available for sampling
PA11XHT	++	2200	20%	201°C	>220°C	+++	€€€€	25%	Release in Q1 2017
PAI2	+++	1520	22%	182°C	150°C	++	€€€	25%	Available for sampling
PAI2GB30	++	2300	11%	182°C	180°C	++	€€	35%	Low cost and high stiffness
PAI2LW	++	1500	17%	182°C	160°C	++	€€	35%	light weight and ease to sanding
PAI2CF	+++	5000	10%	182°C	180°C	++	€€€	35%	Release in Q1 2017
PAI2HT	++	2300	10%	182°C	190°C	++	€€	35%	Available for sampling
PAI2XHT	++	1520	15%	182°C	>200°C	++	€€€	35%	Release in Q1 2017
TPU 90A	+++	-	250%	154°C	-	+++	€€	25%	Available for sampling
PP Flex	++++	1000 - 1500	>35%	130 - 135°C	70 - 80°C	+++	€€	25%	Release in Q1 2017
TPU different shore hardnesses	+++	-	-	-	-	+++	€€	25%	Release in Q1 2017
PAI2 FR	++	2300	-	-	-	++	€€€	-	Release in Q1 2017
PAI2 ESD	+++	-	-	182°C	-	++	€€€	35%	Available for sampling

For information purposes only

- Build excellent parts for different sectors: medical, cosmetics, food, design and architecture, automotive, aerospace, apparel, shoes, industry.



ADVANC3D Materials® is a privately owned independent company with a strong knowledge and background in plastics. We develop, produce and distribute raw materials for the additive manufacturing industry:

**FDM** and **SLS**. Our aim is to provide material solutions for different sectors in the Additive Manufacturing.

**Advanc3d Materials is your material's partner!**



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