SELECT™
ABS FLAME RETARDANT

Why should I use SELECT™ABS Flame Retardant?

· High impact strength due to high mix of Polycarbonate

· Easy to use

· Very good layer adhesion

· Contains no halogen

· Meets the UL-94 V0 standard

* Please see our website for latest options and colors available.
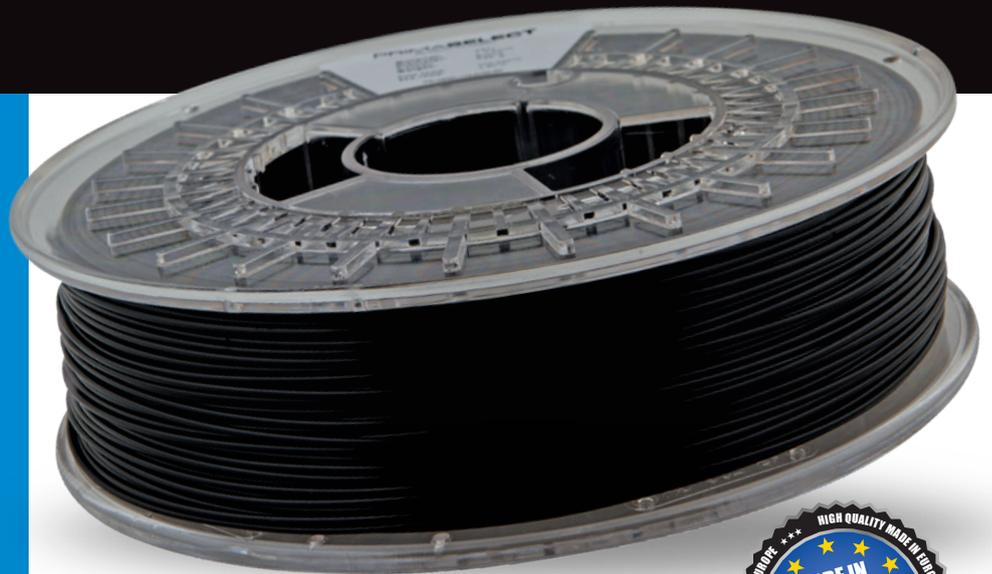
SELECT™ ABS FLAME RETARDANT

SELECT™ABS Flame Retardant (Acrylonitrile Butadiene Styrene) is a material that is widely used in both industry and as fi lament for 3D – printers. It´s strong, light weight and very durable. The well-known Lego blocks are made from ABS and as you know that is a very high impact resistant piece of material and the same goes for SELECT™ABS Flame Retardant.

SELECT™ABS Flame Retardant is a very "easy to use" material and has a matte surface fi nish when printed. This ABS also has limited risk of warping when comparing to other brands of fi lament. SELECT™ABS Flame Retardant.

PRIMA
-CREATOR-

SELECT™

ABS FLAME RETARDANT
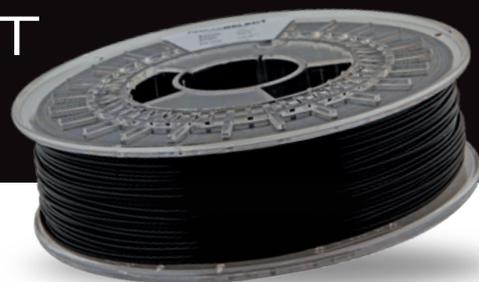
INFORMATION:

With SELECT™ABS Flame Retardant we have succeeded in making an ABS that are very easy to print with and gives you stunning result every time. This filament has a very high impact strength and are perfect for printing tools, toys and different utensils. Thanks to the relative high melting temperature (ffl 103˚C) SELECT™ABS is also suitable for prints that are going to be used in hot environments. When printing with our ABS you can use a slightly higher print temperature then average ABS to get an even stronger result. The big difference between this ABS and "normal ABS is that it is meets the UL-94 V0 standard. This means that it has the ability to self-extinguish. Perfect when you need objects that you will be certain that it won´t catch fire. Any object that catch fire and are printed with Flame retardant material of this class will stop burning within 10 seconds.

When printing with SELECT™ABS Flame Retardant we recommend that you use a heated bed, this is to limit warping and shrinkage. Set your heat bed to ffl 90-110˚C for best results. Print temperature is 240-270˚C due to the fact that the mix contains a high percentage of Polycarbonate together with flame retardant modifiers.

SELECT™ABS Flame Retardant sticks on BuildTak, Glass coated with adhesive spray or glue stick, painters tape coated with hairspray and has been used successfully with glue stick, 3DLac, DimaFix and Magigoo.

SELECT™ABS Flame Retardant is reeled on a transparent spool with a weight of 750 gr. It´s packed in a sturdy box that is shrinked wrapped on both outer box and spool then packed with silica gel to avoid moister.

SELECT™ABS Flame Retardant is available in both 1.75 mm and 2.85 mm.

We have also taken great steps to ensure that you have a filament with a very tight diameter and roundness tolerances. This in turn makes for a filament that is compatible with most common printers on the market today.

Dimensions

Size:	Ø tolerance	Roundness
1,75 mm	±0,05 mm	≥ 95 %
2,85 mm	±0,10 mm	≥ 95 %

Physical properties

Description:	Testmethod	Typical value
Specific gravity	ISO 1183	1,18 g/cc
MFI 260 ºC (5 kg)	ISO 1133	N.D.
Yield stress	ISO 527 50mm/min	65,1 Mpa
Strain at break	ISO 527 50mm/min	62%
Tensile (E) modulus	ISO 527 50mm/min	2400 Mpa
Impact strength izod method 23˚C	ISO 180-1A	12,5 KJ/m²

Thermal properties

Description:	Testmethod	Typical value
Printing temp.	PF	240-270 ˚C
Melting temp.	ISO 294	250 ˚C ±-10 ˚C
Vicat softening temp.	ISO 306	± 110 ˚C
Flammability-rating	UL-94	V0

Reseller:

PRIMA™
-CREATOR-