# KODAK 3D Printing Filament HIPS



## **Technical Data Sheet**

#### **Chemical Name:**

High Impact Polystyrene

#### **Main Applications:**

Concept modeling, Educational projects, Design objects.

#### **Description:**

HIPS is as easy to print as ABS, although much less likely to warp, which makes it another great alternative to classic PLA for models requiring higher impact resistance.

#### **Key Aspects:**

The material is a good electrical insulator, and can be sanded and painted with acrylic paints. It can be used as a dissolvable support material for ABS (soluble with limonene, citric acid). Ideal for printing in conjunction with ABS because it has a similar strength and stiffness profile to ABS which means they complement each other well.

#### **Certifications:**

Our HIPS has been approved by the FDA.

**Diameter:** 

1.75 mm, 2.85 mm

Weight:

750 g

**Density:** 

1,06

Meters per 750 g:

294.163 / 110.911

Weight per meters:

2.55 / 6.76 g

Meters per kg:

392.218 / 147.881

<b>Color Information:</b>	Color:	PANTONE:
	Black	6C
	Blue	2935 C
	Red	485 C
	White	11-4001

Printing Settings	
Printing Temperature	230-250°C
Density (g/cc)	1.04
<b>Build Plate Temperature</b>	Required 70-90°C
Cooling Fans	OFF

Mechanical Properties	Typical value	ASTM Method
Tensile Stress at Yield:	2.5000	D 638
Tensile Strength:	7.290 (50)	D 638
Tensile Elongation %:	3.31	D 638
Izod Impact Strength, Notched (at 23°C):	1.7	D 256
Elongation:	>50%	\ <u>\</u>
Flow Index:	80-90	E 2092
Heat Distortion:	89 °C	D 648

Physical Properties	Typical value	ASTM Method
Density:	1.06	D 792
Vicat Softening Temperature:	90 ℃	D 1525
Water Absorption:	0.03	D 570

### **KODAK** 3D Printing Filament HIPS



#### Warning:

This product can expose you to chemicals, which are known to the State of California to cause cancer. For more information, go to www.P65Warnings.ca.gov

#### **Disclaimer:**

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