

## RESIN -3DS Figure 4 HighTemp150°C FR BLK

Brand: **3D Systems**

Product Code: **3DPR-  
HIGHTEM150CFRBL**



\* Application example

## RESIN -3DS Figure 4 HighTemp150°C FR BLK

Save on Tooling Costs and Time with Direct Production of Flame-Resistant Plastic Parts!

Figure 4® High Temp 150°C FR Black is a rigid, flame-retardant black material that can be used for production parts requiring UL94 V0 rating as well as FAR 25.853 and 23.853 capability.

It provides long-term environmental stability with an injection molded-like surface quality.

This material is recommended for consumer, transportation, and aerospace applications that require performance at high temperatures like brackets, covers, and circuit board housings and covers.

Figure 4 High Temp 150°C FR Black is tested to 8 years of indoor and 1.5 years outdoor mechanical performance per ASTM D4329 and ASTM G194 methods, ensuring that printed parts remain functional and stable for long periods in real-world conditions.

Isotropic properties:

Figure 4 technology prints parts that are isotropic in mechanical properties meaning the parts printed along either the XYZ axis will give similar results. Parts do not need to be oriented to get the highest mechanical properties, improving the degree of freedom for part orientation for mechanical properties.

Applications:

- \* Printed circuit board covers
- \* Electrical and under-hood housings requiring UL94 V0 rating
- \* Rigid covers, hangers, and brackets
- \* Small FAR 25/23.853 in-cabin parts
- \* Flame retardant parts for trains and buses

#### Benefits:

- \* Self-extinguishing, flame-retardant material
- \* Halogen-free
- \* High heat deflection temperature for demanding applications
- \* No secondary thermal cure required
- \* Excellent surface quality, accuracy & repeatability
- \* Capable of plating and painting

#### Features:

- \* Passes UL94 V0 test standards @ 2 mm and 3 mm thickness
- \* Passes FAR Part 25.853 @ 12-second vertical burn and HB testing @ 3 mm thickness
- \* Passes FAR Part 23.853 @ 12-second vertical burn and HB testing @ 3 mm thickness
- \* Passes UL 746C GWIT and GWFI @ 2 mm and 3 mm thickness
- \* >150C @ 0.455 MPa HDT
- \* 2900 MPa flexural modulus
- \* Long-term indoor and outdoor environmental stability of mechanical properties; tested out to 8 and 1.5 years (respectively) per ASTM methods

#### Attachments

Figure 4@ High Temp 150°C FR Black Comprehensive Data sheet