

# High Temp 150C FR Black

## High Temperature

Applications demanding high heat deflection temperature

Simulating black ABS/PC, this UL94 V0 rated flame-retardant material has >150°C heat deflection temperature.



### Benefits

- **Self-extinguishing/flame-retardant and halogen-free**
- **Injection moulded-like surface quality**
- **Extremely good long-term environmental stability**

### 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



### Physical Properties

Colour	Black
Type	PC, ABS

### Mechanical Properties

		TEST/ISO
Solid Density	1.29g/cm <sup>3</sup>	ASTM D792
Tensile Strength (MPa)	58	ASTM D638
Tensile Modulus (MPa)	2600	
Elongation at Break (%)	4	
Elongation at Yield (%)	N/A	
Flexural Strength (MPa)	100	ASTM D790
Flexural Modulus (MPa)	2900	
Notched Izod Impact Strength (J/m)	10	ASTM D256
Unnotched Izod Impact Strength (J/m)	50	ASTM D4812
Heat Deflection Temperature (°C)		ASTM D648
@ 0.455 MPA	>150 C	
@ 1.82 MPA	89 C	
Shore Hardness	85D	ASTM D2240
24hr Water Absorption (%)	0.26	ASTM D570

### Electrical

Dielectric Strength (kV/mm) @3mm	15.2	ASTM D149
Dielectric Constant @ 1MHz	3.19	ASTM D150
Dissipation Factor @ 1MHz	0.029	
Volume Resistivity (ohm-cm)	3.36X10 <sup>15</sup>	ASTM D257

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