

# ABS FR

## Flame Retardant ABS

ABS (Acrylonitrile Butadiene Styrene) Flame Resistant / Retardant thermoplastic filament is a premium grade material that is well suited for demanding 3D printing application where flame resistance is preferred or required (electrical, aerospace, appliances / products, automobile parts, etc.) or where there is potential that a flame could ignite the plastic.

Mechanical Properties	Standard	Value	Unit
Ultimate Tensile Strength	ISO 527	29	MPa
Tensile Modulus	ISO 527		MPa
Elongation at Break	ISO 527	10	%
Flexural Strength	ISO 178	55	MPa
Flexural Modulus	ISO 178	1.8	GPa

Physical Properties	Standard	Value	Unit
Density	ISO 1183	1.16	g/cm <sup>3</sup>
Certifications and Tests	Standard	Value	Unit
Flammability (UL 94)		1.0mm V-1 1.5mm V-0 1.5mm 5VB 2.5mm 5VA	

### Characteristics

- Fire Retardant
- Looks like regular ABS
- Light Resistance
- Heat Resistance
- High Impact

### Applications

- Electrical where there is potential that a flame could ignite the plastic
- Aerospace where there is potential that a flame could ignite the plastic
- Appliances / products where there is potential that a flame could ignite the plastic
- Automobile parts where there is potential that a flame could ignite the plastic

### Considerations

- Although smoke and odor levels are low, ABS filaments must be used in well ventilated area, with a HEPA Filter powered on.

**Printing Skill & Experience:**     Beginner     Intermediate     Advanced     Expert

### Printer Compatibility

<input type="checkbox"/> 3ntr A2v4	<input type="checkbox"/> 3ntr A4v4	<input checked="" type="checkbox"/> EVO-T	<input checked="" type="checkbox"/> EVO22-T
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Available colors from [Airwolf 3D](#): White