

Technical Data Sheet

**FR ABS(Flame retardant Acrylonitrile Butadiene Styrene)
HFA 462**

Features Extrusion moulding
Applications Electronics

Physical	Test Method	Value
Density	ASTM D792	1.18 g/cm ³
Melt Flow Index (200°C, 21.6kg)	ASTM D1238	20 g/10min
Mold Shrinkage	ASTM D955	0.4 ~ 0.7 %
Water absorption	ASTM D570	0.3 %

Mechanical	Test Method	Value
Tensile Strength	ASTM D638	410 kg/cm ² (5,740) (psi)
Elongation	ASTM D638	20 %
Flexural Strength	ASTM D790	630 kg/cm ² (8,960) (psi)
Flexural Modulus	ASTM D790	24,000 kg/cm ² (341,400) (psi)
Izod Impact Strength(3.2mm)	ASTM D256	22 kgcm/cm (4.1) (ft-lb/in)
Rockwell Hardness(R scale)	ASTM D785	102

Thermal	Test Method	Value
Heat Deflection Temperature(18.6kgf/cm ²)	ASTM D648	80 °C (176) (°F)
Vicat Softening Temperature(1kg, 50°C/h)	ASTM D1525	96 °C (205) (°F)

Flammability	Test Method	Value
Flame Rating - UL (1.6mm)	UL 94	V-1
Flame Rating - UL (3.2mm)	UL 94	V-1

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Molding Condition

Injection Guide	Unit	Value
Nozzle	°C	200~220
Front	°C	200~220
Middle	°C	200~220
Rear	°C	190~210
Hopper Throat	°C	45
Mold	°C	40~60

Drying	Unit	Value
Temperature	°C	60~80
Time	hr	2~4

Notes

These are just typical properties, not specifications. Users should confirm results by their own test.

Processing

HFA 462 can be injection molded under different conditions depending on machinery available and articles molded. It is suitable for gas assisted injection molding.

Customer Notice

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