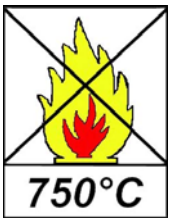
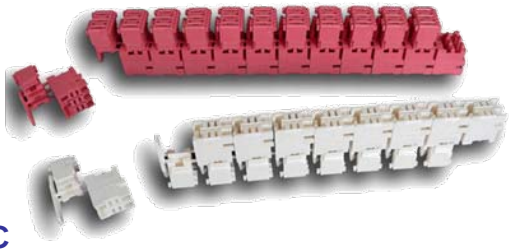
# Materials for unattended household appliances (IEC 60335)

**Requirements:**




**Ignition behavior**
**GWT 750 °C" no flame"**
**Flammability UL94**
**Temperature resistance**
**Dimensional stability**
**Electrical properties, CTI >250 V**
**Ball indentation hardness >125 °C**



## IEC 60335 standard:

- 5 sec flame allowed at the plate, 2 sec at the part
  - Often 0,8 mm and 3 mm passes easily, but 1.5 or 2 mm often critical

## A. Schulman policy for our GWIT materials:

- Zero seconds flame; so really no flame!
- Performed at all thicknesses: 0.4, 0.8, 1.5 and 3 mm

Only this way we can offer grades with best performance at your finished parts and components

### SCHULAMID® 6 GF30 GW FR2

Halogen- free PA 6, 30% glass fibers,
V-0 at 0.8 mm and GWT >750 °C without flame from 0,4 to 3,0 mm,
High mechanical strength and high flow
Exceptional high strain at break, for snap fitting performance

### SCHULAMID® 6 MV14 FR4 K1681

PA 6, unfilled, reduced moisture absorption,
GWT >750 °C without flame from 0,4 to 3,0 mm,
high elongation at break for film hinges

### SCHULAMID® 66 GF25 FR5A

PA 66, 25 % glass fibers,
high dimensional stability, high stiffness,
GWT >750 °C without flame from 0,4 to 3,0 mm,
UL94 V-0 at 0.5 mm
very good flow,
Excellent stable processing
suitable for very thin wall thicknesses,
good electrical properties, CTI >400 V

### POLYFLAM® RPP 4225 GW CS1

Halogen free PP Homo, 25% Glass fibers, low density,
GWT >750 °C without flame from 0,4 to 3,0 mm,
UL94 V-0 at 1.6 mm, V-2 at 0.8 mm
high dimensional stability,
excellent electrical properties, CTI 600 V,
Temperature range up to 110 °C, short-term 150-160
No pre drying, suitable for easy overmolding with TPE