

# Flame Retardant Materials

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## OUR SUPPLIERS





## FF311SF-9502, FJ081HP-9502, FE011HP-9502, FD211SF-9502



**Halogen Free Flame Retardant PP compounds with balanced mechanical properties enabling low weighting and lowered carbon footprint**

### **MATERIAL DESCRIPTION**

- V0 1.6mm
- Halogen free FR
- Yellow cards/UL listing
- Stabilized for contact with metals
- Sustainable solution through a low carbon footprint
- European compounding

### **MATERIAL APPLICATIONS**

Batteries, charging stations,  
E&E, E-mobility



## MB25-502



**Best-in-class processing for wire and cable at a competitive price**

### **MATERIAL DESCRIPTION**

- High molecular weight siloxane polymer
- Improved inorganic flame retardants distribution
- Very good cable surface quality
- Applicable with broad cable extrusion speed range
- Working well with different cable diameters
- Limits die pressure build-up and plate-out
- Reduces extruder screw torque by up to 30%
- Increases throughput by up to 110%
- Delivers best-in class processability

### **MATERIAL APPLICATIONS**

Masterbatch



## PA66 RPG25 BK004



**PA66 RPG25 BK004 is a halogen free v0 polyamide 55 with outstanding thermal and mechanical properties. Its excellent processability makes it an excellent choice for E&E parts.**

### **MATERIAL DESCRIPTION**

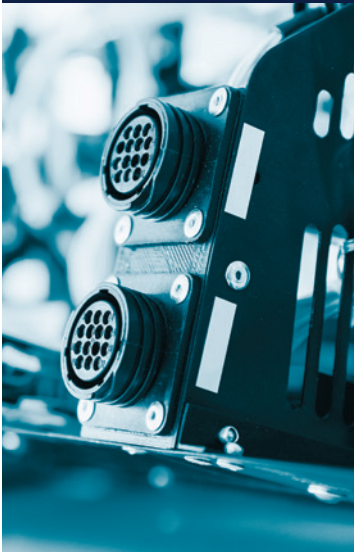
- 25% Glass Fiber
- High strength
- Flame retardant V0 at 0.8 mm
- High heat resistance
- Halogen free
- Good electrical properties
- No blooming

### **MATERIAL APPLICATIONS**

Electrical and electronic parts

**KINGFA**

## PA6 NPG30



**New halogen free high reinforced polyamide PA6 NPG30 allows perfect combination of electrical properties along with significant reduction on material density.**

### **MATERIAL DESCRIPTION**

- Flame-retardancy UL94 V0
- Halogen and red phosphorus free
- Low density
- Strength & stiffness

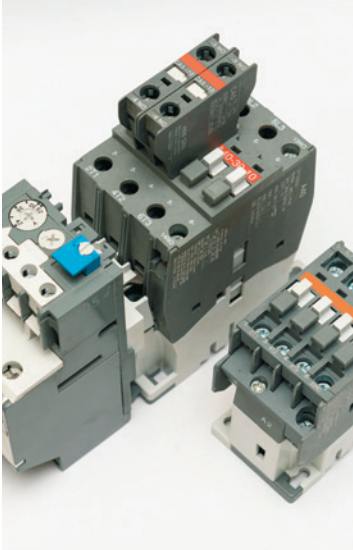
### **MATERIAL APPLICATIONS**

Connectors, bobbins, E&E articles

**KINGFA**



## PPA ForTii T11



**ForTii®** is a breakthrough high temperature polyamide with halogen-free and halogen containing flame retardant grades for demanding applications in the electronics, lighting, automotive, white goods, industrial and aerospace industries.

### **MATERIAL DESCRIPTION**

- PPA-GF30 FR (40)
- 30% Glass Reinforced, PA4T, Electro-friendly, Halogen free and free of red phosphorous, Certified V0 at 0.2mm

### **MATERIAL APPLICATIONS**

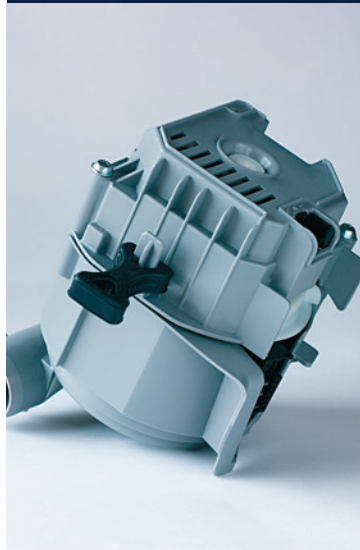
Reflow connectors, battery connectors, contactors, FAKRA connectors, miniature Circuit breakers, rotary switch

**Envalior**  
Imagine the Future





## PARA Ixef 1521\*



**50% glass fiber reinforced, flame retardant polyarylamide which exhibits high strength and stiffness, outstanding surface gloss, and excellent creep resistance.**

### MATERIAL DESCRIPTION

- Polyarylamide, 50%GF
- Chemical Resistant
- Creep Resistant
- Flame Retardant
- Good Dimensional Stability
- High Flow
- High Strength
- Low Moisture Absorption

### MATERIAL APPLICATIONS

Aircraft applications, appliance components, automotive, bushings, camera, gears, industrial

*\*Only available in Italy*



## PA6 Akulon K-FKGS6/B and 2. XG-FKGS6



### MATERIAL DESCRIPTION

- PA6-GF30 FR (17) = PA6, 30% Glass Reinforced, high flow, Halogen containing, V0 at 0.75mm
- PA6-GF30 FR (40) = PA6, 30% Glass Reinforced, high flow, halogen Free, V0 at 0.75mm

### MATERIAL APPLICATIONS

EV charging connectors (male and female), Photovoltaic connector



# Flame Retardant Materials for Automotive Applications

## EMERGE™ PC/ABS 7740/7760

- Impact resistance, down to -30°C
- Flame-retardant: UL 94 V0@1.6mm, 5VB@2.0mm and 5VA@2.5mm
- Wide selection of opaque colors
- Available with UV package, as EMERGE™ 7700/7750 for increased weatherability resistance
- Design freedom, excellent processability
- Enhanced chemical resistance
- Excellent esthetics



TRINSEO™

## EMERGE™ PC 8410-15 or 8210-31

- Medium impact resistance up to -15°C
- Flame-retardant: UL 94 V0@1.5mm and 5VA@3.0mm
- Available as transparent material (UL 94 V0@1.8 mm) or in wide selection of opaque colors and MFR
- Available with UV package, as EMERGE™ 8430-15 or 8230-31 for outdoor applications; f1 listing according to UL 746C
- Improved RTI of 130/115/130, according to UL 746B
- Design freedom, excellent esthetics



TRINSEO™

## EMERGE™ PC 8701HH

- 12% glass-reinforced PC, delivering high stiffness, high heat resistance and impact resistance
- Flame-retardant: UL 94 V0@1.5mm, 5VA@3.0mm
- Wide selection of opaque colors only
- Available with UV package, as EMERGE™ 8731HH for outdoor applications; f1 listing according to UL 746C



TRINSEO™

## EMERGE™ PC 8030-15

- Best-in-class FR grade within portfolio PC compounds
- Flame-retardant: UL 94 V0@0.80 mm, 5VB@2.0mm & 5VA@2.5mm
- Impact resistance up to -20°C
- UV package included for outdoor applications, f1 listing according to UL 746C
- Improved RTI of 130/115/130 according to UL 746B
- Available in opaque colors only
- Designed for ultra-thin applications



TRINSEO™

## EMERGE™ PC 8830-5 LT

- Impact resistance, down to -30°C
- Flame-retardant: UL 94 V0@1.00mm, 5VB@2.0mm & 5VA@3.0mm
- Remains transparent at low thickness (also available in opaque colors)
- UV package included for outdoor applications, f1 listing according to UL 746C
- Improved RTI of 130/115/130 according to UL 746B



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