

**ADDITIVES &
COLORS FOR THE
PLASTICS INDUSTRY**



**FR FOR ELECTRICAL APPLIANCES
PRODUCT RANGE**



TOSAF FR ADDITIVES

As a leading producer of flame retardants for industrial applications for more than 30 years, we offer an extensive product portfolio of flame retardant masterbatches to meet market demand.

Using premium quality active ingredients and innovative formulations, we help our customers to achieve high-level product performance while helping reduce the harmful fire emission and fume effects.

Sharing with you our know-how and years of experience, we will advise on which FR masterbatches to use, how to use them and addition levels, to optimize them for both your production process and end-user applications.

Our flame retardant solutions have been specifically developed to meet both the performance and legal requirements of each and every sector where plastics are used. We offer both Halogen-based and halogen-free solutions, taking into consideration the specific mechanical properties and qualities that our customers require.

FR FOR PP



Application:

Chest freezer griller and refrigerator injected parts

FR6413PE MB Complies:

RoHS, REACH and SVHC

Flammability

UL94 V0 and V2 (1.6mm & 3.2mm)
GWIT IEC 60695-2-13 (850°C & 960°C)

DIN 4102 B1



Application:

Refrigerator, washing and dryer machine

FR4968CPW white compound Complies:

RoHS, REACH and SVHC

Flammability

UL94 V0, 5VA (1.6mm & 3.2mm)
GWIT IEC 60695-2-13 (850°C & 960°C)
Needle Flame Test IEC 60695-11-5





Application:
Injected parts for air conditioner

**FR6519PPG EU compound
complies with:**
RoHS, REACH and SVHC
UL yellow card

Flammability
UL94 V2 (1.6mm & 3.2mm)
GWIT IEC 60695-2-13 (850°C)

UV stability
ASTM G 154-4



Application:
Drives and pumps for kitchen hoods

**FR2086HP EU and FR6696PPK EU
(black) compound Complies:**
RoHS, REACH and SVHC

Flammability
UL94 V2 (1.6mm & 3.2mm)
GWIT IEC 60695-2-13 (850°C)
Needle Flame Test IEC 60695-11-5



Application:
Refrigerator basement and motor
cover

**FR7903PP EU and FR7819PP EU
HFFR compound Complies:**
RoHS, REACH and SVHC

Flammability
UL94 V0, 5VA (1.6mm & 3.2mm)
GWIT IEC 60695-2-13 (850°C &
960°C)
Needle Flame Test IEC 60695-11-5



FR FOR HIPS



Application:
Motor cover of refrigerators

Production method:
Injection molding

FR2941PS EU MB complies with:
RoHS, REACH and SVHC
UL94 V0 (1.6mm & 3.2mm)
GWIT IEC 60695-2-13 (850°C & 960°C)
Needle Flame Test IEC 60695-11-5

FR FOR ABS



Application:
Electrical parts

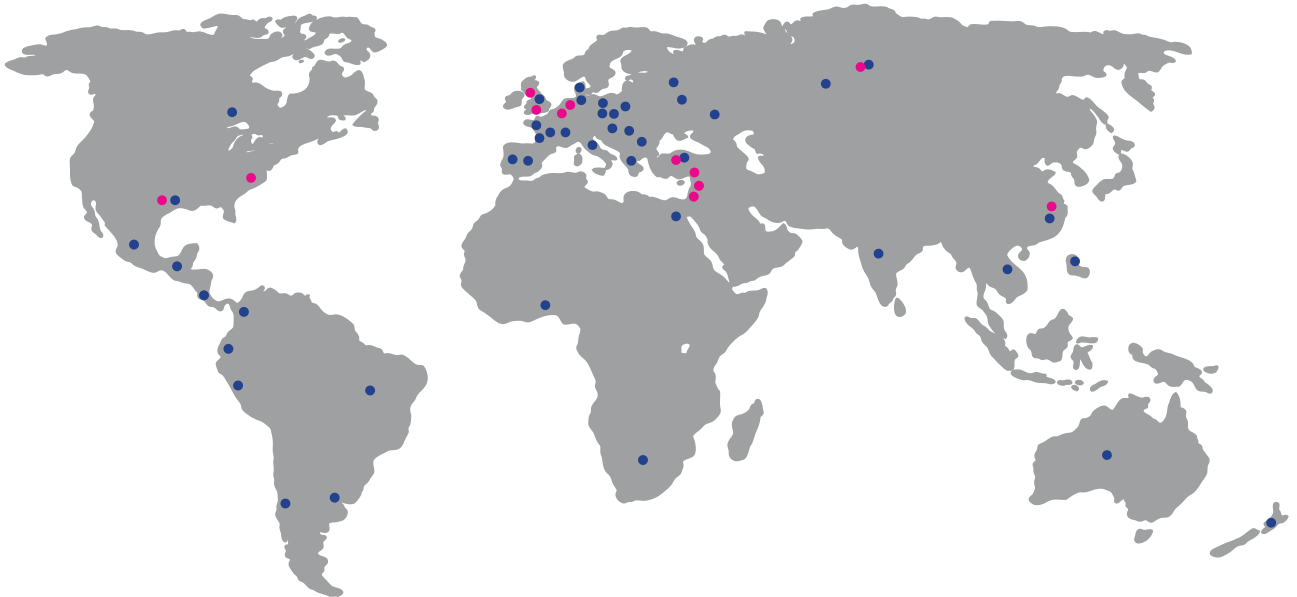
Production method:
Injection Molding

FR0625SA EU MB complies with:
RoHS, REACH and SVHC
UL94 V0 (1.6mm & 3.2mm)
GWIT IEC 60695-2-13 (850°C & 960°C)
Needle Flame Test IEC 60695-11-5

TOSAF FR ADDITIVES

With warehouses and representative offices in multiple regions around the world, we are able to stay close to our customers, understand their needs and provide excellent service.

Wherever you are, we are there too. Expanding into new territories and reaching new markets is the only way to truly grow. As you take your business global, you can count on us to be close at hand, with the quality and breadth of products, service and support you need.



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