



Masterbatches e Additivi per Materie Plastiche ed Elastomeri

**FERRO-PLAST S.r.l.**

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## FerroFlam PC RPM 240

Informazioni Tecniche

Flame Retardant for Polycarbonate

### Product description

**FERROFLAM PC RPM 240** is a non -halogenated flame retardant based on red phosphorus, particularly suitable for polycarbonate articles. It is offered as a free-flowing and dust-free master batch in pellets physical form which makes it very easy to handle, accurate to dose and safe to process, allowing high consistency in the quality of the final article.

**FERROFLAM PC RPM 240** is based on stabilized and micro-encapsulated red phosphorus powder grades and styrene-acrylic nitrile copolymer as a carrier resin. It is easy to be homogeneously dispersed in the polymer compound.

### Delivery Specifications and Technical data

Characteristics	unit	Target Value	DS 1)	TD 2)
Phosphorus	%(w/w)	45-47	√	/
Moisture	%(by wt)	max 0.06	√	/
Density	g/cm <sup>3</sup>	approx.1.5	/	√
Fire Temperature	°C	> 320	/	√

- 1) The product is constantly monitored to ensure that it adheres to specified values.
- 2) The technical data are used solely to describe the product and are not subject to constant monitoring.

### Applications

**FERROFLAM PC RPM 240** is the master batch developed especially for PC, also glass-fiber reinforced, intended to be used for electrical switches, connectors and domestic appliances, etc.

### Formulation

In PC, a recommended dosage should range from 3 to 6% (by wt) based on the weight of polymer, depending on PC grade, processing conditions and the required flame retardancy class.

Specifically, in PC, a dosage of 4% is usually sufficient to meet the most demanding applications for electrical components (i.e.V-0 at 1.6mm in thickness according to UL94).

### Processing

**FERROFLAM PC RPM 240** is endowed with high thermal stability and particularly for polycarbonate and glass-fiber reinforced. It is suitable temperatures rise up to 320° without degrading or releasing die build-up or carbonaceous residues in hot runners. However, the following processing instructions have to be considered:

- 1) Polymer pellets/powders which are processed together with **FERROFLAM PC RPM 240** should be pre-dried. The residual moisture content should be under 0.06%.
- 2) The maximum temperature of the polymer melt should not exceed 320°C.
- 3) Drying of the pellets immediately after compounding is recommended. It is best to use a strand pelletizer with as short a water bath as possible.

### Packaging

**FERROFLAM PC RPM 240** is delivered in 25kg Multi-layer sealed bags, or per customer's requirements.