



Masterbatches e Additivi per Materie Plastiche ed Elastomeri

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FerroFlam PE RPM 670

Informazioni Tecniche

Flame Retardant for Polyolefin

Product description

FERROFLAM PE RPM 670 is a non-halogenated flame retardant based on red phosphorus, particularly suitable for polyolefin 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 PE RPM 670 is based on stabilized and micro-encapsulated red phosphorus powder grades and polyolefin as a carrier resin. It is to be homogeneously dispersed in the polymer compound.

Delivery Specifications and Technical data

Characteristics	unit	Target Value	DS 1)	TD 2)
Phosphorus	%(w/w)	70-72	√	/
Moisture	%(by wt)	max 0.3	√	/
Density	g/cm ³	approx.1.6	/	√
Bulk density	kg/cm ³	approx.800	/	√
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 PE RPM 670 is the master batch developed especially for use in polyolefin. It is the ideal partner for halogen-free flame-proofing polyethylene (homo-polymer and co-polymer), polypropylene (homo-polymer and co-polymer) articles such as tubes, jackets, profiles, wires, cables, film, etc.

Formulation

FERROFLAM PE RPM 670 is generally combined with one or more synergistic co-agents such as metal hydroxides (Al(OH)₃, Mg(OH)₂), organic phosphoric esters, expandable graphite, melamine derivatives, etc. A recommended dosage should range from 8 to 12%(by wt)based on the weight of total compositions, depending on the kind of polymers, other flame retardant content and the required flame retardancy class.

Processing

- 1) **FERROFLAM PE RPM 670** is endowed with high thermal stability for polyolefin (LDPE, PP) as well as for a wide range of polymers (thermal plastic rubbers, polyamides, etc.) intended to be processed at temperatures ranging from 160°C to 270°C
- 2) The polymer carrier has been selected for achieving homogeneous dispersion of all components in host polymers under normal processing conditions of twin screw extruders.

Packaging

FERROFLAM PE RPM 670 is delivered in 25kg Multi-layer sealed bags, or per customer's requirements.