



Plastic & polymer additives and solution supplier
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Technical Data Sheet

ProFlame® RP7002 Masterbatch

RP7002 Masterbatch is made from micro-capsules encapsulated red phosphorus and PE or EVA carrier with stabilizer and lubricant system. It is designed to eliminate the inhalation of dust and skin contact of powder in producing and granule type also overcome disadvantage of easy to fire in storage and using are more secure.

RP7002 Masterbatch can be incorporated to a polymer in conjunction with flame retardant and other additives directly. The Impact strength of polymers with this masterbatch is remarkably improved as compared to Red phosphorus powder.

Tech Spec:

Items	Spec
Micro encapsulated red phosphorus (%)	69.0-71.0
Appearance	granule
Moisture(%)	≤0.15
Density(g/cm ³)	1.50-1.80
Ignition point(°C)	≥320

Recommended dosage :

Extinguish immediately after leaving the fire : 6-8% in PP or PE

It can be used in combination with hydroxide, zinc borate and P/N flame retardant .

Main features:

1.Good precipitation resistance: Fully coated red phosphorus from hydrophilic to hydrophobic surface from inorganic to organic, improved compatibility with resin. Especially precipitation resistance migration capability is greatly improved.

2.Excellent mechanical properties: Less impact on the material properties and excellent mechanical properties of the parts because of low dosage .

3.High performance carrier : Absolutely guarantee the products of environmental protection and stability .

4.Fin particle size: RP7002 uses fine grinding technology to producing finer particle size of micro-capsule red phosphorus, improved masterbatch dispersion, compatibility, precipitation resistance to make the product surface smooth and shining.

5.Environmental friendly non-halogen: Passing SGS test, meet ROHS requirements.

6.Good stability:Micro-capsule coated red phosphorus than the traditional masterbatch (not coated) has good chemical stability, improved the red phosphorus easy-absorption of moisture, the defects of easy-oxidation .

7.Good electrical properties: Comparative tracking index (CTI) 600V, high magnetic line iron removal process, production line full removal of trace amounts of iron in phosphorus ingredients. The existing "industrial red phosphorus" national standards, The iron content of red phosphorus has no target requirements, trace iron in red phosphorus material up to 5KG per ton.

8.Good security : Don't worry about the original red phosphorus fire explosion at any time.

9.Can be made of black masterbatch: unique formula black, adequately address the red phosphorus of red not black-black parts questions.



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Package and Storage:

25Kg PP bag with PE liner or 500kg sack bag ; 20MT/20'container.

Should be stored in dry and ventilated storeroom. This product is non-dangerous.

For other operations, please refer to SDS instructions provided by the manufacturer.

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