

DEVELOPMENT DATASHEET (1)

EXP PP/16

EXP PP/16 is a proprietary synergistic flame retardant system still under development, for use in polyolefins. It is based on Phosphorus and Bromine. EXP PP/16 is available as an odourless fine powder with a fine particle size. No heavy metals or Antimony Oxide are present and no antiacids should be added in the formulations.

EXP PP/16 is a very effective and efficient solution for flameproofing Polypropylene homopolymer and copolymers. Dosage for UL-94 V2 rating range from 2.5% to 3.5%, depending on polymer type and specific formulation. High GWIT are achieved depending on sample thickness. At 3% dosing in the final compound the calculated halogen content will be around 0,084%. EXP PP/16 is endowed with a very high thermal stability and it is very easy to disperse in a polymer matrix. Additional application data and further developments can be discussed with Italmatch Chemicals Technical Development Center.

Physical properties (2)

Appearance:	Fine powder
Odor:	odorless
Color	light yellow
Density (gr/cc)	~ 2,2 gr/cc
Phosphorus (%)	~ 29%
Bromine (%)	~ 2,8%
Bulk density (Kg/m3):	600 kg/m3
Particle size D50:	~ 7 microns

- (1) This datasheet is temporary and will become obsolete when the product is fully commercialized
- (2) Typical properties; not to be constructed as specifications

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