



Plastic & polymer additives and solution supplier  
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# Technical Data Sheet

## ProFlame® - FR Masterbatch

### EFPO-240170G1B

Environment-friendly PP Flame Retardant Masterbatch for UL94-V0 Class. Developing its effectiveness through phosphorus/nitrogen synergism. When incorporated into polyolefin, it shows high processing stability and no migration. When the polyolefin on exposure to flame, the carbon foam layer formed protects the polymer through its heat insulating effect to reduce further oxygen access and prevent dripping of the polymer. At the same time there are no halogen hydride gases to cause.

#### Tech Spec:

Item	Index
Appearance	White Granule
Moisture	0.3% max
Density	1.2±0.1 g/cm <sup>3</sup>
Decomposition Temperature	240°C min
FR Grade(UL94)	V0 (1.6-3.2mm)

#### Applications:

The extrusion and injection of PP,PE and other polyolefins for V0 grade under UL94.

#### Recommended dosage :

Polymer	Usage guide
PP	UL94 V0-3.2mm : 34-36 wt% UL94 V0-1.6mm : 38-40 wt%
PP+30%GF	UL94 V0-1.6mm : 32-34wt%
PE	UL94 V0-3.2mm : 39-41wt% UL94 V0-1.6mm : 45-50wt%

#### Processing instruction:

- ▶ The optimum conditions for incorporating should be determined in each individual case. Care must be taken to ensure homogeneous dispersion of all components.
- ▶ Both single- and twin-screw extruders are suitable for incorporating the product. The temperature of the polymer melt should not exceed 240°C.

#### Package & Storage:

Net weight 25KG bag with PE liner.

It is not dangerous cargo .You should handle the material according to the instruction described on MSDS.

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