



Plastic & polymer additives and solution supplier
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Technical Data Sheet

ProFlame[®] AM-5

Halogen-free flame retardant for TPU

ProFlame AM-5 is a formulated eco-friendly halogen-free flame retardant mainly based on phosphorus and nitrogen. With special surface coating treatment, AM-5 has good compatibility with the substrate, little influence to the physical properties of the final product, excellent flame-retarding performance, and in compliance with EU RoHS regulation.

Advantages:

1. achieving FR performance by both gas phase and solid phase mechanism
2. good colorability
3. no hydrolysis, no blooming
4. good processability
5. good physical and electrical properties
6. low smoke, no-toxic, no dripping
7. halogen-free, no harm to the environment and human body

Technical Data:

Items	Spec
Appearance	White free-flowing powder
N content,%	≥20
Decomposition Temperature, °C (TGA 1%)	≥320
Moisture,%	≤0.5
Average particle size (um, D50)	≤5.0

Usage:

Recommended dosage is 35% for polyether TPU to reach UL-94 1.6mm-V0.

Package:

AM-5 is delivered in paper-plastic composite bag, net weight 20 or 25±0.1kg .

Storage and transportation:

Minimum shelf life is 12 months stored in a dry and ventilated warehouse.

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