GABRIEL-CHEMIE
GROUP

Solutions for extrusion
and injection moulding

Masterbatch with and
without Halogen

Range of products for
PA6, PA66 and PA12

Highly concentrated
Masterbatch

FLAME RETARDANTS

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The global flame retardant polyamide market is **projected to grow** from USD 809.1 million in 2021 to USD 1,468.5 million in 2028 at a CAGR of 8.9% in forecast period.

Flame retardant polyamide is a **special polymer with fire inhibiting properties**. These chemicals are added to products such as foams, computers, mattresses, electric wires, automotive parts and insulation materials. The growing product utilization in electrical and electronic components such as printed circuits boards, electronic castings, and circuit processing are anticipated to surge the market growth. The implementation of stringent fire regulations concerning the safety of the consumer is driving the adoption of the polymer. Furthermore, the **technological advancements** in polyamide will boost the demand from the automotive industry.

Specifics of the flame retardant masterbatch **HP72521FR**

- **HALOGENATED**
- **Based on LDPE with 80% of FR additive**
- **Available also as combi version (colour + FR)**

POLYMER	DOSAGE SUGGESTED	FR CLASS
PA6GF25 – PA6GF30	22-25%	V0 @ 3 mm (UL 94)
PA66GF25 – PA66GF30	22-25%	V0 @ 3 mm (UL 94)

Specifics of the flame retardant masterbatch **UN7MA4880FR**

- **HALOGENATED**
- **100% FR additive, it can therefore be used in combination with many other polymers (ABS, HIPS, PA)**
- **Available only in natural version**

POLYMER	DOSAGE SUGGESTED	FR CLASS
PA6	5%	V2 @ 1,6 & 3,2 mm (UL 94)
PA6	25-30%	V0 @ 3,2 mm (UL 94)
PA6GF30	25%	V0 @ 3,2 mm (UL 94)
PA6GF30	25%	V2 @ 1,6 mm (UL 94)
PA12	10-13%	V2 @ 1,6 mm (UL 94)
PA12	20-25%	V0 3,2 mm (UL 94)

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MAXITHEN **PA7AA4140FR**

- **HALOGEN FREE flame retardant masterbatch**
- **Carrier: PA6**
- **Masterbatch with 50% of red phosphorus**
- **Default colour is brick-red, therefore no neutral colour available**
- **Example of application: electric engine fan, battery housing, corrugated pipes**
- **Target customers: Compound producers**

Compound producers can use for PA6 or PA66 (filled and unfilled) from 8% to 16%. Generally, using the 12% of Masterbatch with PA66 at 30% of Glass-fiber can be obtained V-0 (Ul94 - 0,8 mm) with GW > 960 C°

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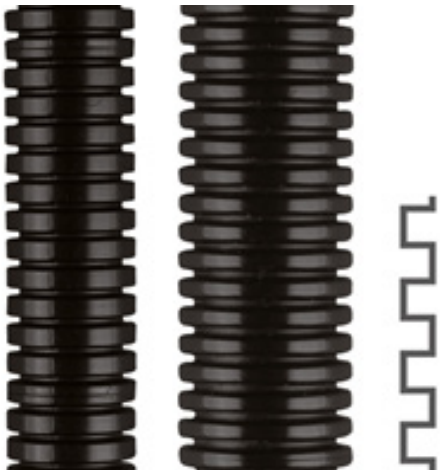
Specifics of the flame retardant masterbatch **PA7MA2190FR**

- **HALOGEN FREE**
- **Based on PA12 with 40% of FR additive**
- **Available only in natural version**

POLYMER	DOSAGE SUGGESTED	FR CLASS
PA12	12-15%	V2 @ 3 mm (UL 94)

Protective all-plastic tubing, internally and externally corrugated, fine or coarse profile for very flexible applications, outdoor area, V2 (UL 94), EN 45545-2 (HL2)



APPLICATIONS

- **Automation**
- **Railway**
- **Shipbuilding**
- **Electrical Installations**
- **Automotive**
- **Machinery and equipment**
- **Renewable Energy**

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Specifics of the flame retardant masterbatch **PA7AB3260FR**

- **HALOGEN FREE**
- **Based on PA12 with 50% of FR additive**
- **Red phosphous free**

POLYMER	DOSAGE SUGGESTED	FR CLASS
PA12	10-15%	V0 @ 3 mm (UL 94)

Specifics of the flame retardant masterbatch **PA7MA4797UVFRB1**

- **HALOGEN FREE**
- **Carrier: PA6**
- **Includes 20% FR additive and UV stabilization**
- **All colours available**

POLYMER	DOSAGE SUGGESTED	FR CLASS
PA6	15%	V2 @ 3 mm (UL 94)
PA6	15%	B1 @ 3 mm (DIN 4102)
PA6	15%	C1 @ 3 mm (Italian norm)

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