News in Flame-Retardant Compounds

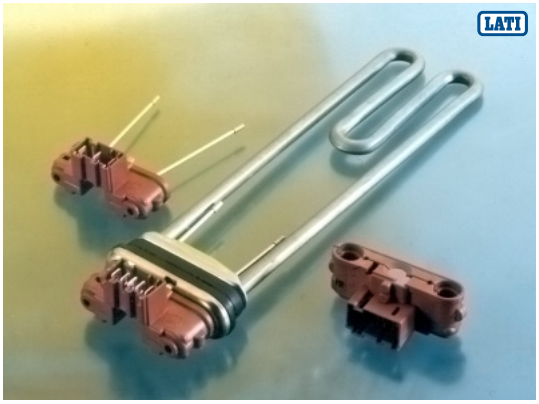
LATAMID 66 H2 G/25-V0KB
Belt buckle for breathing apparatus
(fire service)

Flame-retardant additives are incorporated into plastics to help prevent a fire or its propagation by interrupting or hindering the combustion process and thus protect lives, property and the environment. Such additives are typically classified as either halogenated or non-halogenated.

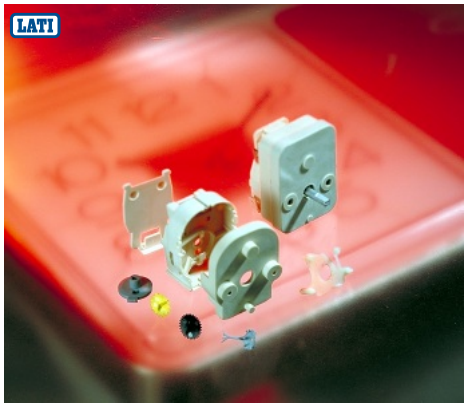
At LATI we offer probably the most comprehensive range of flame-retardant engineering compounds available from any single source. The grades cover the entire performance spectrum from polyolefins to PEEK. Some compounds are inherently flame retardant, for example PEEK, LCP, PPS, PPSU, PES, PSU, while for others it is necessary to add flame-retardants and synergistic additives, as in PP, PA, PBT, ABS, PPA, SPS and others. To achieve good flame retardancy, many different types of additives are commercially available, based on such chemical types as chlorinated and brominated compounds, red phosphorus, melamine salts, phosphates and magnesium hydroxide. More than 100 LATI products are UL recognised and many comply with the strictest UL94 directive (Flammability), as well as with UL746B (Thermal properties) and UL746A (Electrical properties).

For environmental reasons, in the near future it is likely that some brominated flame-retardants (PBB and PBDE types) will be banned. It is one of the main pillars of LATI's product-development strategy to investigate possibilities for non-halogenated, and red-phosphorus-free additives packages in a wide range of base resins. The driving force for this comes primarily from public-safety initiatives which are becoming increasingly stringent in the domains of, particularly, mass transport and the building industry. The goal is to achieve effective flame retardancy at a reasonable cost, and, in the eventuality of catastrophic circumstances in which fire does break out, that the plastic components liberate fumes of low toxicity and optical density.

LATI is willing to share with you its expertise in this field, and its Technical Service and Research & Development Teams are at your complete disposal to analyse your requirements and collaborate on project developments.



LATAMID 66 H2 G/25-V0KB3
Heating element
(for washing machine)



LATAMID 66 H2 G/25-V0CT1
Timer
(for small household appliances)

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Latest Product Developments

Product description	*Compound type*	***Properties and key benefits***
Halogen & Red-Phosphorous free		
LATAMID 6 H2 G/20-V2HF GREY:2430L1	PA 6 20% glass fibres	- UL94V-2 @ 0.75 mm – UL full indexing from 20 to 30% glass fibres; - good mechanical properties and flowability; - **laser markable** with superior light contrast
KELON B FR H2 CE/25-V2HF	PA 6 25% mineral filler	- UL94V-2 @ 0.75 mm; - excellent dimensional stability and good flowability; - **economic alternative** to the above
LATIOHM 62-09 PD01 G/20-V2HF	PA 6 20% glass fibres	- **statically-conducting FR grade**; - UL94V-2 @ 0.75 mm; - good mechanical properties and flowability
LATAMID 66 H2 G/25-V0HF	PA 66 25% glass fibres	- **UL94V-0 @ 0.75 mm - GWFI 960°C / GWIT 775°C**; - good mechanical, thermal and electrical properties
With Red-Phosphorous		
LATAMID 66 H2 S/35-V0KB3	PA 66 35% glass-beads	- UL94V-0 @ 1.5 mm; - **very good dimensional stability**
LATILUB 66-01M-V0	PA 66 + MoS_2	- UL94V-0 @ 1.5 mm; - **low coefficient of friction**
LATILUB 66-10T G/25-V0KB1	PA 66 25% glass fibres + PTFE	- UL94V-0 @ 1.5 mm; - **improved wear resistance**; - good mechanical and thermal properties
LATISHIELD 66-08A G/25-V0KB1	PA 66 25% glass fibres + metal fibres	- UL94V-0 @ 1.5 mm; - **EMI shielding – low electrical resistivity**; - good mechanical and thermal properties
With Halogens		
LATENE 7H2W T-V0E	PP + Mineral filler	- UL94V-0 @ 0.75 mm; - **PBB and PBDE free**
LATAMID 66 H2 G/25-V0CT1 (all colours MI9)	PA 66 25% glass fibres	- **UL94V-0 @ 0.75 mm; RTI 140°C; GWIT 900°C; UL 1446 class F**; - PBB / PBDE free; NFF 16-101/102:I2 F3; CTI 400 V; - **laser markable** - very good mechanical properties
LATILUB 66-20T-V0	PA 66 + PTFE	- UL94V-0 @ 0.75 mm; - **excellent wear resistance**
LATER 4 G/30-V0CT2	PBT 30% glass fibres	- Sb_2O_3 (antimony trioxide) and PBB / PBDE free - UL94V-0 @ 0.75 mm; **CTI 400 V**
LATIOHM 75/4-05 PD01 G/20-V0	PBT 20% glass fibres	- UL94V-0 @ 0.75 mm; - **antistatic properties - low electrical resistivity**; - good mechanical and thermal properties
LATILUB 75/4-15T G/30-V0	PBT 30% glass fibres + PTFE	- UL94V-0 @ 0.75 mm; **CTI >500 V** - **good self-lubricating properties**; - good mechanical and thermal properties
Intrinsically Self-extinguishing		
LATILUB 87/30-15T G/10-V0	PC 10% glass fibres + PTFE	- UL94V-0 @ 1.5 mm; - good mechanical and thermal properties; - **excellent self lubricating properties**
LARTON GK/400	PPS 40% glass fibres + carbon fibres	- UL94V-0 @ 0.75 mm; - **excellent mechanical and thermal properties**; - very good chemical resistance; self lubricating properties; - **antistatic with low electrical resistivity**

Note: should you be interested in receiving a more detailed brochure, just contact our Offices