

## HALOGEN FREE FLAME RETARDANT FOR POLYCARBONATE

**CONSTRUCTION**

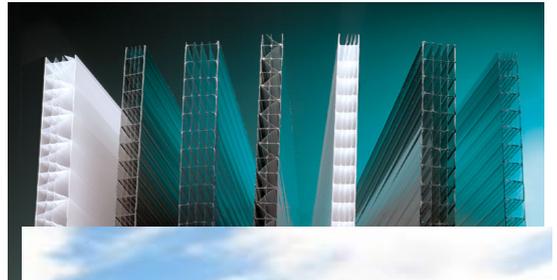
**AEROSPACE AND RAIL**

**PUBLIC DEVICES**

**MASS TRANSPORTATION**

**ELECTRIC / ELECTRONIC**

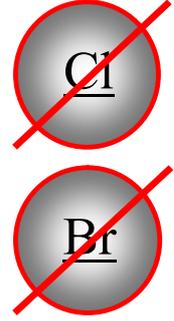
**SAFETY**



Product data sheet, 28.06.2020

## SMART LA HFFR 1027

**HALOGEN FREE FLAME RETARDANT FOR POLYCARBONATE**



The most widely accepted flammability performance standards for plastics are UL Subject 94 ratings which identify a material's ability to extinguish a flame once ignited.

Non-flame retarded standard for halogen-free flame retardancy is according to DIN VDE 472, part 815. With suitable addition of SMART LA HFFR 1027 the Polycarbonate resin has been rated V0 at 1,8mm thickness according to UL94 and it is halogen free according to DIN VDE 472, part 815.

It should be noted that each Resin tested may receive several ratings depending on colour and/or thickness.

Halogen-free flame retardant SMART LA HFFR 1027 allow meeting environmental safety regulations, such as RoHS, without compromising desirable material performance properties.

The product complies with the requirements of the ECHA Candidate List and do not contain SVHC (Substances of Very High Concern) in the updated list of 20.06.2013

### APPLICATIONS

- ...Polycarbonate sheets hollow and solid
- ...Electrical appliances
- ...Moulded parts for automotive, train and aircraft
- ...Seats
- ...Connectors
- ...Household appliances

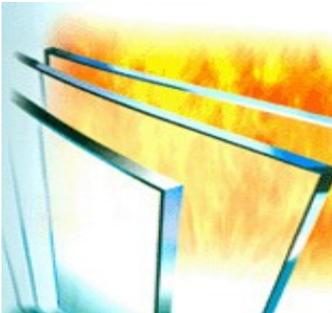


### TECHNICAL ASPECTS

Chemical structure	:	Halogen free flame retardant
Appearance	:	Transparent viscous liquid
Molecular weight	:	Not applicable for mixtures
Viscosity	:	93 cSt@23°C
Heat Stability	:	up to 300°C
Applicable Thermoplastic resins	:	Polycarbonate (Please check product stabilization for each application with our technical staff!)
Addition Level	:	Addition levels should be checked for each Polymer and thickness. Recommended levels: 0,4% - 0,5% for V0 at 1,8mm fulfilling <b>UL94</b> regulation
RoHS compliance	:	Ingredients are Compliant to <b>RoHS DIRECTIVE 2002/95/EC.</b>
ECHA / SVHC	:	This product complies with the requirements of the <b>ECHA</b> Candidate List and do not contain <b>SVHC</b> (Substances of Very High Concern) in the updated list of 20.06.2013

### HANDLING AND STORAGE

Packages should be stored under cover, or preferably inside a warehouse, to maintain the temperature of the product at a level which allows for easy discharge which is at room temperature. The shelf life of properly stored and unopened package is, at least, 12 months.



*This information is based on our best knowledge and experience. Since we do not have control over the exact use of our products or other factors that may affect your specific process and application, Providing this data does not relieve you of the responsibility of carrying out your own tests and experiments prior to use. Therefore, we make NO WARRANTY, EITHER OF MERCHANTABILITY OR OTHERWISE ABOUT THE FITNESS OF OUR PRODUCTS FOR A PARTICULAR APPLICATION. It is the responsibility of those to whom we supply our products to ensure that any proprietary rights and existing laws and legislation are observed.*