

# IPC

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## 1. Characteristics of Product

IPC stands for isophthaloyl chloride and is refined to be highly pure. It is a crystal white solid at room temperature. It is as clean and transparent as water when it is in its liquid state. It is used as a main material of meta-aramid, which shows a high level of physical characteristics of flame resistance, heat resistance, chemical resistance, and flexibility.

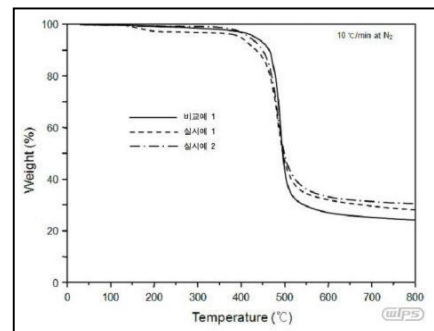
## 2. Product Application



**Meta-aramid fiber**



**Water Capture**

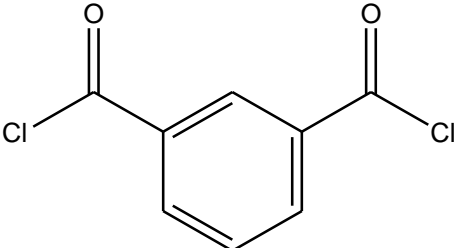


**Reaction retardant**

IPC is mainly used as a material for meta-aramid, which is a special material, and also for some stabilizers and reaction retardants. In particular, the meta-aramid resin made by using IPC is flexible and resistant to 400°C or higher. It is highly heat-resistant as it can be used continuously in 200°C–210°C. It is also highly flame-resistant and generates a small amount of toxic gas when burning, making it widely usable in industries such as fire-resistant gear, high-temperature dust collection bag filters, and electric insulators.

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## 3. Product standards & general properties

Item	Evaluation Method	Unit	Result
<b>Product Standards</b>			
Purity		wt%	Min. 99.85
IPC		wt%	Max. 0.05
Other Impurities		wt%	Max. 0.1
<b>General Properties</b>			
Product Exterior			White Solid
Boiling Point		°C	276
Freezing Point		°C	43
Evaporation Pressure (25 °C)		mmHg	0.03
Flash Point		°C	156
Molecular Weight		g/mol	203
<b>Chemical structure</b>			
			

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## 4. Product Packaging

IPC supplies Bulk

## 5. Safety and Health

Contact with this substance will lead to burn. If it comes in contact with the eyes, it may cause severe pain or damage, leading to injury and burn. In addition, inhaling its powder would be very harmful to the lamina muscularis mucosae, and also to the tissue on the upper part of airway. Digesting it will lead to burn. If it comes in contact with the skin, contaminated clothing and shoes should be removed. Wash sufficiently with soap and water first before seeing a doctor. When washing, wash for 15 minutes at least before seeing a doctor. If a person inhaled the powder of it, the person should be moved to an area with fresh air, stabilized and kept warm. If necessary, artificial respiration should be applied. If a person digested it, do not induce vomiting and do not let the person eat any type of food in any case while the person is unconscious. Wash the mouth with water before seeing a doctor. Take precaution against the heat of fire. When required to put out a fire, it is required to wear a self-contained respiration system. Water, alcohol-resistant foam, dry chemical, or carbon dioxide fire extinguishers should be used.

## 6. Storage and Handling

In case of IPC, take extra precautions to prevent moisture from being mixed into the storage container. Seal the container with dry hydrogen gas, if possible. When working with IPC, it is required to wear proper safety gear and have an exhaust system in place. Any contact with eyes or skin should be avoided during the work. Also, take precaution to prevent dusts and aerosol from being generated. After work, washing using soap must be carried out and contaminated working garment must be washed before being used again.