

Chemical Foaming and Nucleating Agent Masterbatch for Plastics

Characteristics

- A chemical foaming agent masterbatch for olefin and PS resins, containing a composite of inorganic salt and organic acid, or Azodicarbonamide as a main component
- Capable of achieving weight saving, prevention of sink marks (i.e. improvement in appearance), and of imparting buffering and thermal insulation effects
- Applicable to extrusion and injection moldings
- Our endothermic decomposition type foaming agent masterbatch containing a composite of inorganic salt and organic acid as a main component, is capable of forming uniform and fine foamed cells, and creating odorless foamed articles with excellent appearance.
- Our exothermic decomposition type foaming agent masterbatch containing Azodicarbonamide as a main component, generates large quantities of gas per unit time, and is capable of creating relatively inexpensive foamed articles.
- Our products are also available as a foaming nucleating agent capable of promoting fine foam cell formation using the gas foaming method.
- Registered and approved by Japan Chemical Innovation and Inspection Institute (JCII), except for some products

Representative Products

Product name	Type of foaming agent	Base resin	Gas generation amount* (ml/g)	Applicable molding			Characteristics/application
				Extrusion molding	Gas foaming nucleating agent	Injection molding	
SSC PO217K	Inorganic and organic composites	LDPE	21	○	○	○	For general purpose
SSC PO410K	Inorganic and organic composites	LDPE	45	○	○	—	Foaming nucleating agent
PO412K	Inorganic and organic composites	LDPE	43	○	—	—	High-foaming
SSC ME6013 N	Inorganic and organic composites	LDPE	41	○	○	—	Low residue
PO251K	Azodicarbonamide	LDPE	46	—	—	○	For general purpose
PS202	Organic single compound	PS	21	○	—	—	For PS

*In-house measurement *Above is our internal experimental data. It is not guaranteed.

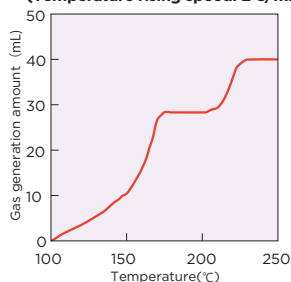
Evaluation Results

Gas generation amount curve

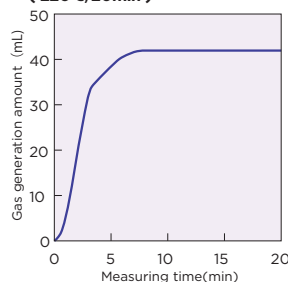
PO412K

Concentration of foaming agent : 40%

Measuring temperature rising (Temperature rising speed: 2°C/min)



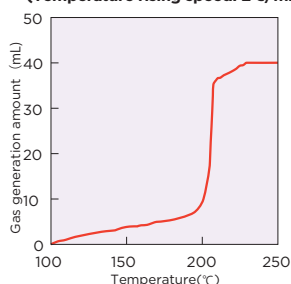
Measuring constant temperature (220°C, 20min)



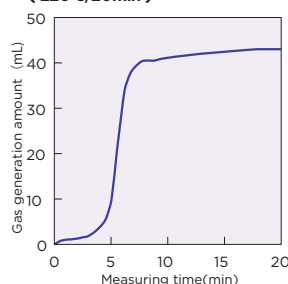
PO251K

Concentration of foaming agent : 20%

Measuring temperature rising (Temperature rising speed: 2°C/min)



Measuring constant temperature (220°C, 20min)



*Above is our internal experimental data. It is not guaranteed.

Application

Foaming agents applicable to food packaging materials, buffer materials, thermal insulation materials, plastic pallets, etc.

