PROCELL® A120

Technical Data Sheet

General

Active nucleating agents are polymer melt additives that decompose upon heating thus releasing gases. Under high pressure condition, these gases remain solubilized in the melt. Upon depressurization, nucleating spots within the polymer melt are created. Foamed products can be obtained by combining a nucleating agent with a physical blowing agent (physical foaming). Typical targets are weight reduction, raw material savings, and enhanced thermal insulation. Moreover, specific stiffness can be optimized and surface effects tuned.

Description

PROCELL® A120 is an active nucleating agent based on an endothermic reaction.

Physical form

Off-white, dust-free, polymer-bound pellets.

Applications

This product can be used in a variety of applications involving extrusion, extrusion blow molding, or direct gassing of polyolefins and styrene-based polymers. It further complies with the regulation of the European Union, as well as other countries, regarding the use of plastic materials in food contact applications. A declaration of conformity is available upon request.

Processing

Activation temperature: 170°C

If possible, the temperature in the feeding zone should be kept below 180°C to prevent premature degassing. It is further recommended to exceed 210-220°C at one stage in the process in order to ensure full thermal decomposition of the active components resulting in maximum gas yield. Persistent melt temperatures above 250°C may lead to thermal degradation of the carrier material.

Dosage guideline

Nucleation: 0.3 – 0.5 wt%

Packaging

10-25 kg bags

Storage / Shelf life

This product should be stored in a dry and cool place protected from UV-light. Improper storage may cause degradation and loss of functionality. Pallets are not stackable. It is suggested to utilize the material within one year from the date of delivery. For any use above this limit, please refer to our technical services.

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