



Technical Information

Sanitized® BC A 21-61

Antimicrobial protection for sheeted, extruded or molded thermoplastic polymers

Fields of Application

The additive is compatible with numerous thermoplastic polymers typically used for sheets and extruded or molded parts such as polyolefines (PP, PE), polycarbonate (PC), ethylene-vinylacetate (EVA), acrylonitrile butadiene styrene copolymer (ABS), polystyrene (PS), polyurethane (PUR), polymethyl methacrylate (PMMA), rubbers (SBR), thermoplastic elastomers, etc.

Examples:

Home furnishing such as flooring, laminated surfaces, etc.

Household and sanitary articles such as brooms, brush bristles and handles, boards, films, sponges, containers, appliances and equipment, phones, toilet seats, bathtubs, sinks, etc.

Clothing such as shoe insoles, artificial leather, gloves, etc.

Industrial applications such as filters, ropes, coatings, packaging, gaskets, films, housings, etc.

Sanitized® BC A 21-61 is approved by the US FDA for the use in all types of food-contact polymers at levels not to exceed 1 % by weight of the finished polymers.

Mode of Action and Advantages

Substrates protected with Sanitized® BC A 21-61 are safe for man and the environment.

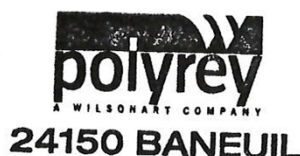
Sanitized® BC A 21-61 is an antimicrobial additive based on a natural active ingredient in form of silver encapsulated in a patented glass ceramic material.

Sanitized® BC A 21-61 imparts a reliable effect against a large number of microbes such as bacteria and fungi.

Due to the effectiveness of Sanitized® BC A 21-61 microbes are deprived of their nutrients and can no longer proliferate.

Advantages:

- › Protects the polymer against microbial infestation
- › Inhibits bacteria and their activity
- › Prevents formation of unpleasant odors caused by bacteria
- › Durable effectiveness
- › Washing resistant
- › Based on silver - a natural active ingredient



le 07.05.2015.



Technical Information

Sanitized® BC A 21-61

Antimicrobial protection for sheeted, extruded or molded thermoplastic polymers

Characteristics

Composition	Silver in a glass ceramic matrix.
Commercial form	20 kg bags
Appearance	White crystalline powder
Particle size	D 98 % < 40 µm
Bulk density	1.050-1.100 kg/m ³
Compatibility*	Compatible with most additives used in the plastic industry such as stabilizers, antistatic products, fillers, pigments, optical brighteners, UV absorbers, etc.
Fastness*	Good leach resistance. No negative influence on light stability, gas fading and heat stability could be observed.
Temperature stability	The product can be processed at temperatures up to 500 °C.

*These statements concerning the compatibility and fastness of the finish are indications of the possibilities known to us for the use of our product and reflect the state of our knowledge at the present time. Specific performance parameters for finished material should, in each case, be assessed by the user before commercial application.

Registration Status

US FDA	Approved for the use in all types of food-contact polymers at levels not to exceed 1 % by weight of the finished polymers.
EFSA	The European Food Safety Authority (EFSA) has accepted the active ingredient for use in food-contact polymers. Specific migration limit: 0.05 mg Ag/kg food.
EU	Complies with EU Regulation 10/2011. Listed on the provisional list of additives used in plastics.
NSF	Certified to standard 51 for food equipment materials.
US EPA	Registered under Ref. No. 73148-3-3090 and approved for polymers with food contact.

Application

Concentration	0.2-0.6 % of Sanitized® BC A 21-61 relative to the total weight of the material to be protected.
Dosage equipment	Volumetric or gravimetric dosing units, side extruders or tumblers are recommended.