

Getinge Clean

Renuzyme Foam Spray Plastics Compatibility

Background

Renuzyme Foam Spray is a ready-to-use, dual-enzyme, pre-treatment foam designed for point-of-use, reprocessing delays and in the Sterile Processing Department to enhance the manual cleaning process. Renuzyme Foam Spray is designed for point-of-use, to begin the decontamination process as soon as possible post-procedure per AAMI ST79 and AORN recommendations. It is not designed for use in machines. Its optimal performance temperature range is from 50°F to 80°F (10°C to 27°C). This product improves the cleaning process by increasing product contact time with soiled surfaces and preventing blood and other bioburden from drying down on medical devices and instruments.

The data compiled in these experiments show the substrate compatibility between Renuzyme Foam Spray and a wide variety of plastics and polymers used in the composition of medical devices. The objective was to expose a number of different substrates to conditions that are representative of instrument processing, and at the same time over exposing the substrates to Renuzyme Foam Spray to see if there was any change in weight gain of the sample materials.

Experimental Method

For the experimental design, Renuzyme Foam Spray at production concentration, an elevated temperature of 120°F, and a contact time of 48 hours were used. Each individual substrate was first weighed on an analytical balance, and its mass recorded to the nearest 0.1 mg. Each substrate was then placed in a clean flint glass jar, and covered completely with the Renuzyme Foam Spray. Prepared jars were then placed in a temperature-controlled oven at 120°F for 48 hours. After 48 hours, the jars were removed, each individual substrate removed, rinsed with deionized water, and allowed to dry for 24 hours. After the drying time was complete, each substrate was weighed on an analytical balance. Each substrate was also visually inspected for any adverse effects (cracks, pits, crazing). All data were recorded and analyzed for verification.

Results

All substrates listed below exhibited less than 1% change in weight, after being subjected to the conditions above with Renuzyme Foam Spray. Visual inspection showed no unusual effects, and no cracks, crazing, or pitting of any of the substrates.

Borosilicate Glass
Ethyl Vinyl Acetate (EVA)
High Density Polyethylene
Nylon
Poly (methylmethacrylate) (PMMA)
Polycarbonate (Lexan)
Polychloroprene (Neoprene)
Polyetherimide (Ultem)
Silicone Rubber

Polyethersulfone (Radel)
Polyoxymethylene (Delrin)
Polyphenylene oxide (Noryl)
Polypropylene
Polystyrene
Polyurethane
Polyvinyl Chloride (PVC)
PTFE Fluoropolymer (Teflon)

Getinge is a registered trademark of Getinge AB or its subsidiaries or affiliates in the United States or other countries.
Copyright 2020 Getinge AB or its subsidiaries or affiliates. • All rights reserved.

Sales Office, US • 45 Barbour Pond Drive • Wayne, NJ 07470

Sales Office, Canada • 90 Matheson Blvd West, Suite 300 • Mississauga, Ontario L5R 3R3 • Canada

www.getinge.com

MCV00104849 REVA
EXP04/22