

DAKOR

Material Performance Report

DACKOR

Standardized Conditions..

1. Sample specimens of the DACKOR materials were received to the testing laboratory.
2. Samples were microscopically examined before exposures with pictorial recordings.
2. Samples pre-conditioned to chamber replicating standard room temperature & humidity.
3. Samples exposed by swab/spill to corrosive agents regarded as institutional health care cleaners/disinfectants.
4. Samples retained direct surface contact with re-agent in chamber for cycle periods 16 up to 200 hrs.
5. Samples cleaned post exposure...commercially accepted & recognized cleaning solution..pictorial recordings.
6. Samples evaluated and scored accordingly.

DACKOR

Material performance overview

- **Summation ...**

These DACKOR materials were tested for their ability to resist staining, etching and cross contamination using Institutional grade disinfectants & Institutional grade hard surface cleaners. A degreed Chemist familiar with the corrosive re-agents, the specified cleanings/disinfecting chemicals and actual test protocols performed this evaluation and the scoring of materials after each test cycle requirement was completed.

Each of these DACKOR sample specimens received *acceptable & *passing evaluation scores for all three classes of levels of commercial disinfection & cleaning materials along with passing & acceptable scores for common domestic residues such as.. Alcohol, cooking oil, hair dye, shoe polish, crayon, curry powder , lipstick, sugar, tea, whiskey, wine , coffee and salt. Their exposures were at minimum of 16 hours and included some exposures to 200 hours.

* The methods utilized for these test results involved standard practices within a controlled environment. (ASTM D543-06)

* Fungi and Bacterial reactions ... ANSI X 124

CDC.. Definition of 3 levels of Disinfection... Means the use of a chemical procedure that eliminates virtually all recognized pathogenic microorganisms but not necessarily all microbial forms.. (bacterial endospores or inanimate objects.)

Level 1. High-level disinfection – (kills all microbial forms) because of side affects these type materials are not used for general disinfecting.

Level 2. Intermediate-level disinfection- (kills mycobacterium, most viruses, and bacterial with a chemical germicide registered as a tuberculocide by the EPA.)

Level 3. Low-level disinfection - kills some viruses and bacterial with a chemical germicide registered as a hospital disinfectant by the EPA.

EPA... Registered hard Surface Disinfectants include all or partial solutions including. .. Bleach, Sodium Hypochlorite (5.25% concentrates) , Phenols, Quaternary Ammonium Compounds, Hydrogen Peroxide (accelerated anionic surfactants), Botanicals (Benefect-Thymol), Silver Dihydrogen Citrate (Pure Green 24),

Properties..	Grade..	Remarks
Color Stability	No Change	200 hrs
Wear & Cleans ability	Passed	+ 40 hrs exposure
Stain Resistance	Passed	negligible effect
Fungi and Bacteria	No Attack	-24 hours
Bleach	Passed	No permanent
Alcohol	Passed	No permanent

ASTM D543-06

The Standard Practices for Evaluating the Resistance of Plastics to Chemical Reagents.

Significance & Usage

The Evaluation of plastics for special applications involving corrosive conditions should be based on the particular re-agents and concentrations encountered. The selection of test and its testing conditions, manner and duration along with associated temperatures needed to be factors considered when evaluating a plastics performance characteristics.

Scope

- 1.1 These practices cover the evaluation of all plastic materials including cast, hot-molded, cold molded, laminated resinous products and sheet materials for its resistance to chemical agents. Provisions are made for various exposures times, stress conditions, type of re-agents. Actual results of testing can vary greatly based on the type of reagents involved and length of time of exposure. Therefore this particular testing process is an established standard for proper material to material comparisons.
 - 1.2 The effect of chemical reagents on other properties shall be determined by making measurements on standard specimens for such tests before and after immersion or stress or both if so tested.
 - 1.3 The values will be stated in common units for standardization. Values for information purposes are typically (within parenthesis's)
- ICS CODE ICS number code 83.080.01 (general plastics)

ASTM D 618-13

The Standard Practice of Condition Plastics for Testing

Significance & Usage

4.1 Conditioning of specimens is typically conducted (a) for the purpose of bringing the material into an equilibrium with normal or average room temperatures (b) simply to obtain reproducible results regardless of previous histories of exposure (c) to subject the material to abnormal condition of temperature, humidity in order to predict its service behavior.

Scope

1.1 In general the physical and electrical properties of plastics are influenced by temperature an relative humidity in a manner that material affects the test results. In order to make reliable comparison between different materials and between different laboratories it is necessary to standardize humidity as well as temperature prior to and during the testing.

ASTM D3273-12

Standard Test Method for Resistance to Growth of Mold on Surface of interior Coatings in an Environmental Chamber

Significance & Usage

An accelerated test for determining the resistance of interior coatings to mold growth is useful in estimating the performance of the coatings designed for use in interior environments that may promote mold growth and for evaluating if such surface compounds inhibit such growth at aggravated levels.

Scope

This test method describes a small environmental chamber and its condition of operation to evaluate the reproducibility of relative resistance to surface molds/fungi's.

DACKOR

Pictorial Recordings



DACKOR

Material Performance Information Contacts

DACKOR

- Mark Viers
DACKOR 3D Laminates
350 E Crown Road # 1030
Winter Garden , Flo. 34787

- Reina Zelaya
DACKOR 3D Laminates
350 E. Crown Point Rd. #1030
Winter Garden, FL 34787
T. 407-654-5013
F. 407-650-2612
C. 407-308-0198
E: reina@dackor.com

Associated Lab/Chemist

- Gaffney & Associates
3276 Old Chisholm Road
Suite 1101 E
Florence, Al. 35630