

Protac™ Anti-Bacterial

Overlaminating Film

Protac™ Anti-Bacterial is a 6 mil (150µ) textured hard coat PET film with a durable anti-bacterial additive that offers reliable protection against mold and mildew growth and bacterial contamination. The reverse side of the film is coated with a pressure sensitive, solvent acrylic adhesive that is protected by a one side siliconized PET release liner. The film provides scratch and chemical resistance to withstand both daily and aggressive cleaning methods.

Typical Applications

- Ideal for preventing the growth and spread of bacteria from touch surfaces, such as worktops, control panels, door plates, switches, and equipment.
- Ideal for use in environments where hygiene is of particular importance, such as schools, nurseries, communal buildings, restaurants, cafeterias, vending applications, and hospitals.
- Protac™ Anti-Bacterial is an excellent choice for exhibitions and point-of-purchase displays because its textured finish provides good resistance to abrasions and its high clarity ensures no colors are diminished.
- Resistant to chemicals and a number of household cleaners, enduring daily cleaning routines along with more vigorous methods without any loss of anti-bacterial performance.

Product Structure

| | | |
|---------------|--|-----------------|
| Film | Textured PET with Anti-Bacterial Coating | 7 mil (175µ) |
| Adhesive | Solvent Acrylic (Pressure Sensitive) | |
| Release Liner | Siliconized 1 Side PET | |

Physical Characteristics

| | |
|---------------------------------|--|
| Film Thickness | 6 mil (150µ) |
| Adhesive Layer | 1 mil (25µ) |
| Film/Adhesive Ratio | 6:1 |
| UV Protection Factor | Film contains UV stabilizers, which prevent film degradation and provide UV protection to the underlying image |
| Outdoor Durability | Not Applicable |
| Service Temperature Range | 5°F to 266°F (-15°C to 130°C) |
| Minimum Application Temperature | 59°F (15°C) |

| | |
|--------------------|--|
| Shelf Life | Use within 1 year after opening original box |
| Storage Conditions | 59°F to 72°F (15°C to 22°C); 50 - 55% Relative Humidity |

Process Settings

| Equipment Type | Temperature | Speed |
|------------------|----------------------------------|--|
| Roller Laminator | Room temperature to 120°F (49°C) | 1 ft to 8 ft (0.3m to 2.5m) per minute |
| Press | Not recommended | |

Anti-Bacterial Properties

Protac™ Anti-Bacterial has been proven to provide effective protection against bacterial contamination and mold and mildew growth. Refer to the following page for a detailed list of tested microbes on the unprocessed film and after simulated use.

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Anti-Bacterial Properties

| Sample Description | Name | Microbe Class | Test Result | Test Method AATCC Test Method 100 |
|---|--------------------------|--------------------|---------------|--|
| <i>Unprocessed Samples</i> | MRSA | Bacteria Medical | Biocidal Pass | Unprocessed film samples. |
| | Streptococcus Faecalis | Bacteria Medical | Biocidal Pass | |
| | Pseudomonas Aeruginosa | Bacteria Medical | Biocidal Pass | |
| | Klebsiella Pneumonia | Bacteria Medical | Biocidal Pass | |
| | Listeria Monocytogenes | Bacteria Food | Biocidal Pass | |
| | E.coli 0157 | Bacteria Food | Biocidal Pass | |
| | Salmonella Enteritidis | Bacteria Food | Biocidal Pass | |
| | Bacillus Cereus | Bacteria Food | Biocidal Pass | |
| | Aspergillus Niger | Fungi (Black Mold) | Biocidal Pass | |
| | Penicillium Purpurogenum | Fungi (Bread Mold) | Biocidal Pass | |
| | Saccharmyces Cerevisiae | Fungi Yeast | Biocidal Pass | |
| Phoma Violacea | Fungi | Biocidal Pass | | |
| <i>Simulated Wear Test</i> | MRSA | Bacteria Medical | Biocidal Pass | Samples were sandpapered until texture was removed. Then polished with wire wool to give a smooth finish. This was carried out to simulate extreme surface wear. |
| | E.coli 0157 | Bacteria Food | Biocidal Pass | |
| <i>Simulated Embossed Sample</i> | MRSA | Bacteria Medical | Biocidal Pass | Samples were stretched 20% in both MD/CD direction to simulate process of embossing (an embossed sample cannot undergo anti-microbial testing). |
| | E.coli 0157 | Bacteria Food | Biocidal Pass | |
| <i>15 Year Lifetime Test</i> | MRSA | Bacteria Medical | Biocidal Pass | Samples were tested by an independent lab using standard test protocols that simulate real life cleaning procedures over a period of 15 years. |
| | E.coli 0157 | Bacteria Food | Biocidal Pass | |
| <i>Ethanol, IPA, MEK, Phenol Based Disinfectant, Quaternary Ammonium Based Disinfectant, Bleach</i> | MRSA | Bacteria Medical | Biocidal Pass | Samples were soaked for 24 hours to simulate extreme cleaning regimes before undergoing testing. |
| | E.coli 0157 | Bacteria Food | Biocidal Pass | |

IMPORTANT NOTE:

Information is intended only as a guide and is given without guarantees. Purchasers should independently determine, prior to use, the suitability of each material for their specific purpose. Follow the indications on the package, ask for the safety data sheets and always follow the indications contained therein.

Only the correct use of the product will allow satisfactory results. For this reason, Drytac is not responsible for improper use of the product, either by application or substrate applied to. Make certain that product is right for the desired use, and work according to the instructions given in our technical data sheets. If in doubt of the appropriate application methods or use, contact Drytac at the phone number listed below.