



ImagePerfect™ Defense - Matte Clear

DESCRIPTION

ImagePerfect™ 2830-211 Defense is a functional laminate with an antimicrobial additive that has been specifically designed for protecting surfaces in a wide variety of environments

ImagePerfect™ 2830-211 Defense is a functional laminate containing a highly-effective additive that offers protection from micro-organisms, such as bacteria, viruses, fungi and parasites. Whilst antimicrobial products typically incorporate silver agents, this product utilizes zinc pyrithione as its active ingredient and it is encapsulated within the film rather than manifesting as a simple coating on top of the film. As such, the antimicrobial effect is stable and long-lasting. Indeed, when tested independently, the antimicrobial properties were found to be completely unaffected when IP Defense was fully immersed for 1 minute in 3 different solutions of 70.0% ethanol, 0.1% IPA and 5.0% benzalkonium chloride, before being cleaned and dried and then re-immersed for a further minute, with this cycle being repeated 50 times. In accordance with ISO 22196, the antimicrobial properties of IP Defense demonstrate antibacterial activity of >99.99% after a contact time of 24 hours. This has been substantiated with testing against specific bacteria that include Escherichia Coli (E. Coli), Staphylococcus Aureus (Golden Staph), Methicillin-Resistant Staphylococcus Aureus (MRSA), Salmonella, Listeria, Klebsiella Pneumoniae (K. Pneumoniae), Enterococcus Faecalis (E. Faecalis), Pseudomonas Aeruginosa and Legionella Pneumophila. In accordance with ISO 21702, the antimicrobial properties of IP Defense demonstrate antiviral activity of 74.30% (1.3 log₁₀ TCID₅₀) on human coronavirus HCoV-229E after a contact time of 24 hours (measured at 77°F with a relative humidity of 90%). IP Defense can be used on many different kinds of flat surface, including doors, desks, tables, counters, cupboards, shelves, windows and panels, and it can be used in a wide variety of environments, such as RETAIL SPACES (shopping centers, supermarkets, barber shops, etc), HEALTHCARE ENVIRONMENTS (hospitals, clinics, doctors' surgeries, etc), EDUCATIONAL FACILITIES (nurseries, schools, universities, etc), PUBLIC TRANSPORT (taxis, busses, trains, etc), LIFESTYLE ENVIRONMENTS (hotels, restaurants, cafes, bars, gyms, etc) and EVENT BUSINESS LOCATIONS (exhibition centers, conference facilities, meeting rooms, etc). However, we would not recommend this product for use in environments in which it could be subject to direct food contact (such as kitchens, food preparation areas, food processing plants, etc). When used as a protective laminate on printed output, it supports compatibility with different grades of calendered PVC. In such cases, the printed media must be left to "dry" for at least 48 hours before being laminated with IP Defense, otherwise the antimicrobial properties could be negatively impacted. In application, IP Defense has a high level of transparency, thereby retaining the aesthetic of the surface to which it is applied and, when applied to an appropriate substrate, it will support removability with easy clean properties in the event of any adhesive transfer. Surface preparation: Before IP Defense is applied, the surface should be completely cleaned.

SPECIFICATIONS

Property	Description
Film	Laminate
Film Color	Clear, Matte
Thickness	3.2 mil
Adhesive	Solvent based acrylic, semi-permanent
Liner	PE-coated silicone paper
Temperature range	-22°F to +194°F (-30°C to +90°C)
Durability	3 years
Flame Retardancy	B-s1, d0
Shelf life	2 years, 68°F (20°C) / 50% humidity

Technical specifications are subject to change without prior notice. Output may vary depending on the type of print data/file, application, media, environmental conditions, print speed or other variables. The specifications and information on physical and chemical characteristics is based upon testing believed to be reliable. They are intended only as a source of information and are given without guarantee and do not constitute a warranty. Purchasers should independently determine, prior to use, the suitability of this material for its specific use.

CONTACT INFORMATION

For help with questions concerning Gerber products, please call your distributor or Gerber Customer Service at 1-800-222-7446 or (860)871-8082. Visit us on the Internet at www.gerbertechnology.com/signage to learn more about our many other foils, materials and equipment.

When sold by Gerber, use only the corresponding Gerber Product Bulletin to determine product details, including but not limited to appropriate uses, warranty and processing.

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