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FreshVinyl™ Surface Protection Films Technical Data Sheet

Product: A series of conformable polyvinyl surface protection films with an effective antimicrobial.

Typical Uses: Ideally suited for re-opening and on-going maintenance of public areas and vulnerable surfaces within a retail, medical and healthcare, office, restaurant, banking, education and other “high contact” environments where customer and employee confidence is important.

Typical Applications: Point of purchase countertops, desks and kiosks; door surfaces, handles and hardware; drive-through counters and portals; touchscreens; ATM’s; credit card terminals; etc. Ideal for pressure sensitive sheets and tapes; and sizing with both traditional and laser die-cutting technologies.

Formulation: Monomeric (other formulations available). Engineered to seamlessly integrate with touchscreen, fingerprint recognition and capacitance activation technologies with no loss of device functionality.

Regulations, Certification and Compatibility: Proposition-65, Consumer Product Safety Improvement Act (CPSIA) and Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) and Restriction of Hazardous Substances Directive (RoHS). Production certified upon request.

Physical Attributes (Other Gauges, Surfaces, Colors and PHR Available):

- | | |
|-----------------------------------|---------------------------------------|
| ▪ Nominal Gauge (ASTM 2593): | 3.2-mil (+/- 0.2) |
| ▪ Nominal Surface and Color: | Matte Clear |
| ▪ Nominal PHR: | 29 |
| ▪ Embossable: | Yes |
| ▪ Shrinkage (ASTM D1204): | < 6.0% |
| ▪ Tensile (ASTM D882): | 3,000 to 4,000 MD [2,600 to 3,900 TD] |
| ▪ Elongation (ASTM D1204): | 150 to 250 MD [150 to 370 TD] |
| ▪ Nominal Gloss @ 60-Degrees: | 25 to 35 |
| ▪ Surface Smoothness (Sheffield): | ≤ 10 |
| ▪ Printable: | Yes |

Antimicrobial Attributes (ISO 22916):

<i><u>Organisms</u></i>	<i><u>Result</u></i>
▪ Staphylococcus Aureus:	> 99.9% reduction (Excellent)
▪ Klebsiella Pneumoniae:	> 99.9% reduction (Excellent)
▪ Escherichia coli (E. coli):	> 99.9% reduction (Excellent)
▪ MRSA:	> 99.9% reduction (Excellent)
▪ Salmonella:	> 99.9% reduction (Excellent)
▪ VRE:	> 99.9% reduction (Excellent)
▪ Listeria:	> 99.9% reduction (Excellent)
▪ Pseudomonas:	> 99.9% reduction (Excellent)

Cleaning: Compatible with quaternary ammonium-based cleaning solutions.

Specifications subject to change. Customer is solely responsible for adhesive and liner compatibility. No warranty, express or implied, is extended by Mississippi Polymers, Inc. and liabilities, of any kind, are disclaimed.