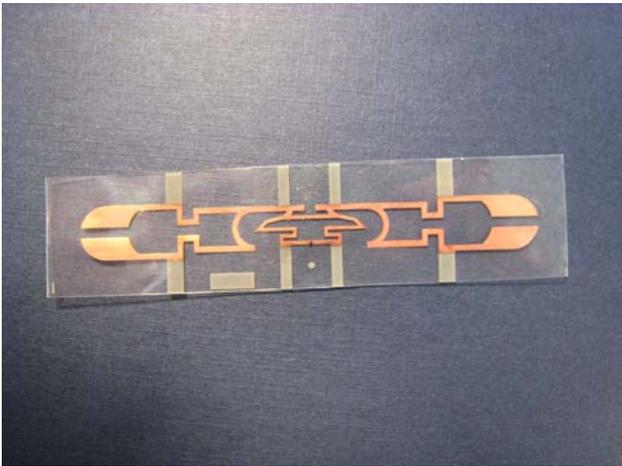


## FT-G1205 RFID Inlays – NXP Windshield Type

The NXP windshield Type Inlays are general purpose RFID inlays optimized for use in windshield tagging application.



- EPC Class 1 Gen2 / ISO 18000-6C
- Long read ranges and higher read rate
- World Tag operated at global frequencies 860-960 MHz
- Available in high-yield, high-capacity rolls for high –volume converting processes
- NXP UCODE IC, 240-bit EPC number, with option 752-bit on-chip user memory

| RF Features                 |   | Dry Inlay Specification             |                                 |
|-----------------------------|---|-------------------------------------|---------------------------------|
| Operating frequency         | Global (860-960 MHz)                                      | Antenna dimension (CDxMD)           | 84.4mm x 10mm                   |
| Mode of operation           | Passive (battery free)                                    | Standard pitch                      | 21.8mm                          |
| Electrical Characteristics  |   | Web width                           | 96mm                            |
| Protocol                    | EPC Class 1 Gen2 / ISO 18000-6C                           | Slit edge                           | 5.8mm                           |
| Memory                      | 240-bit EPC number<br>Option: 752-bit on-chip user memory | Max units per roll                  | 45,000                          |
| Inlay Material              |   | Silicon Coating Specification       |                                 |
| Antenna                     | Copper, 6um ± 1um   | Antenna substrate Dimension (CDxMD) | 95.0mm x 20.0mm                 |
| UHF IC                      | Silicon, 150um ± 15um                                     | Standard pitch                      | 21.8mm                          |
| Substrate                   | PET, 50um ± 5um   | Web width                           | 96mm                            |
| Inlay Roll Format/Finishing |   | Package material                    | Translucent silicone Elastomer  |
| Core length                 | 98mm  | Environmental Specification         |                                 |
| Core inner diameter         | 3" (76.2mm)   | Shelf life                          | 2 Years                         |
| Human body model            | 1.5KV   | Recommended storage Conditions      | -25°C to +50°C<br>20% to 90% RH |
| Charged device mode         | 1.5KV   | Operation temperature               | -40°C to +65°C                  |
|                             |   | RoHs                                | 2002/95/EC Compliant            |

Favite Inc. reserves the right to change its products or services or to discontinue any product or service at any time without prior notice.



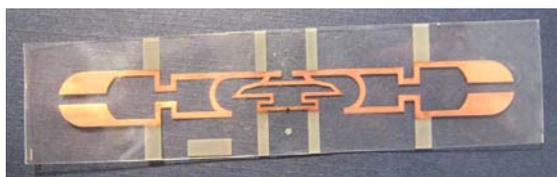
### Favite Inc. RFID Division

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## FT-G1205 RFID Inlays – NXP Windshield Type



### TYPICAL PROPERTY DATA

| PROPERTIES   |                            | FT-G1205 Silicon coating |
|--|----------------------------|--------------------------|
| <b>UNCURED COMPOUND</b>  |                            |                          |
| Appearance   |                            | Translucent              |
| Specific gravity (23C)   |                            | 1.11                     |
| Williams plasticity  |                            | 160                      |
| <b>CURED COMPOUND (Press cure 10min @ 170C; Post cure 4hrs @ 200C)</b> |                            |                          |
| TC-8 curing agent  | Phc                        | 0.8                      |
| <b>MECHANICAL PROPERTIES (JIS K6249)</b>                               |                            |                          |
| Hardness (Type A)  |                            | 36                       |
| Tensile strength   | MPa {kgf/cm <sup>2</sup> } | 7.7 {78}                 |
| Elongation   | %                          | 790                      |
| Tear strength (Angle)  | N/mm {kgf/cm}              | 20 {20}                  |
| Compression set (22h@180C)   | %                          | 29                       |
| <b>CURED COMPOUND (Press cure 15min @ 120C; Post cure 4hrs @ 200C)</b> |                            |                          |
| TC-12 curing agent   | Phc                        | 1.2                      |
| <b>MECHANICAL PROPERTIES (JIS K6249)</b>                               |                            |                          |
| Hardness (Type A)  |                            | 38                       |
| Tensile strength   | MPa {kgf/cm <sup>2</sup> } | 8.4 {86}                 |
| Elongation   | %                          | 690                      |
| Tear strength (Angle)  | N/mm {kgf/cm}              | 26 {26}                  |
| Compression set (22h@180C)   | %                          | 66                       |

TC-8 : 2,5-Dimethyl-2, 5-di-t-butylperoxyhexane

TC-12: p-Methylbenzoylperoxide

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