

Typical Physical Properties and Performance Characteristics

Note: the following technical information and data should be considered representative or typical only and should not be used for specification purposes.

Peel Adhesion:

ASTM D3330 modified, 180 degree peel to various surfaces, 12 in/min (305 mm/min), 2.0 mil polyester backing

| | 8180 | | 8182 | | 8185 | | 8187 | | 8188 | | 8189 | |
|---------------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|
| | oz/ in | N/100 mm | oz/ in | N/100 mm | oz/ in | N/100 mm | oz/ in | N/100 mm | oz/ in | N/100 mm | oz/ in | N/100 mm |
| 20 min dwell at RT: | | | | | | | | | | | | |
| Stainless Steel | 82 | 90 | 58 | 63 | 65 | 71 | 60 | 66 | 67 | 73 | 64 | 70 |
| Glass | 90 | 98 | 59 | 65 | 69 | 76 | 67 | 73 | 80 | 88 | 79 | 86 |
| Acrylic | 61 | 67 | 41 | 45 | 57 | 62 | 51 | 56 | 58 | 63 | 61 | 67 |
| Polycarbonate | 57 | 62 | 42 | 46 | 50 | 55 | 47 | 51 | 43 | 47 | 45 | 49 |
| 72 hr dwell at RT: | | | | | | | | | | | | |
| Stainless Steel | 97 | 106 | 77 | 84 | 96 | 105 | 92 | 101 | 99 | 108 | 100 | 109 |
| Glass | 97 | 106 | 72 | 79 | 84 | 92 | 85 | 93 | 97 | 106 | 90 | 98 |
| Acrylic | 76 | 83 | 51 | 56 | 66 | 72 | 67 | 73 | 66 | 72 | 74 | 81 |
| Polycarbonate | 73 | 80 | 53 | 58 | 71 | 78 | 65 | 71 | 64 | 70 | 72 | 79 |

Color:

ASTM E 1164-07/CIELAB
(BYK Gardner TCS Plus Spectrophotometer, Model 8870)

| 8180 | 8182 | 8185 | 8187 | 8188 | 8189 |
|----------|----------|----------|----------|----------|----------|
| L*=97.12 | L*=97.11 | L*=97.12 | L*=97.12 | L*=97.11 | L*=97.13 |
| a*=-0.05 | a*=-0.02 | a*=-0.05 | a*=-0.04 | a*=-0.05 | a*=-0.05 |
| b*=0.20 | b*=0.15 | b*=0.19 | b*=0.18 | b*=0.18 | b*=0.19 |

Refractive Index:

+ 0.0005 measured for Sodium D line @ 25°C

| 8180 | 8182 | 8185 | 8187 | 8188 | 8189 |
|-------|-------|-------|-------|-------|-------|
| 1.473 | 1.475 | 1.473 | 1.473 | 1.473 | 1.474 |

Haze:

Haze is measured according to ASTM D1003-92

| 8180 | 8182 | 8185 | 8187 | 8188 | 8189 |
|------|------|------|------|------|------|
| 0.8% | 0.6% | 0.8% | 0.8% | 0.8% | 0.7% |

Storage

- Store in original packaging or plastic bag
- Avoid applying pressure or resting objects on the product to prevent marking, denting, or deforming the surface
- Wear gloves to prevent fingerprints or nail marks when handling
- Product needs to be unpacked and handled in a clean-room facility
- Store at room temperature conditions of $22 \pm 8^{\circ}\text{C}$ and $50 \pm 20\%$ relative humidity

Regulatory

For regulatory information about this product, please contact your 3M representative.

Technical Information

The technical information, recommendations and other statements contained in this document are based upon tests or experience that 3M believes reliable, but the accuracy or completeness of such information is not guaranteed.

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