

# V00141

## TUFFlex Premium Plus Handwrap

10.2 Micron / 40 Gauge / 0.40 Mil

*Not intended as limiting specifications*

### CHARACTERISTICS

### VALUES

|                                    |                                   |
|------------------------------------|-----------------------------------|
| Manufacturing Process              | Cast                              |
| Thickness (nominal)                | 10.2 Micron / 40 Gauge / 0.40 Mil |
| Film Width (inches)                | 16"                               |
| Length (feet)                      | 2,000'                            |
| Net Weight / Roll (lbs. – nominal) | 5.1 lbs.                          |
| Roll Diameter (O.D., inches)       | 5"                                |
| Core I.D.                          | 3"                                |

### TESTS

### METHODS

### VALUES

|                               |             |            |
|-------------------------------|-------------|------------|
| Ultimate Tensile MD (PSI)     | ASTM D 882  | 5500       |
| Ultimate Tensile TD (PSI)     | ASTM D 882  | 2100       |
| Elongation MD (%)             | ASTM D 882  | 160        |
| Elongation TD (%)             | ASTM D 882  | 535        |
| Tear Resistance MD (grams)    | ASTM D 1922 | 100        |
| Tear Resistance TD (grams)    | ASTM D 1922 | 340        |
| Puncture Resistance (in-lbs.) | Internal    | 7.7        |
| Ultimate Prestretch (%)       | Internal    | 70         |
| Cling (in to out, grams)      | Mfg. method | 130 to 150 |



[tufflexpackaging.com](http://tufflexpackaging.com)

844-VERITIV

1000 Abernathy Rd. NE, Suite 1700 | Atlanta, GA 30328 | USA

# V00209

## TUFFlex Premium Plus Handwrap

11.9 Micron / 47 Gauge / 0.47 Mil

*Not intended as limiting specifications*

### CHARACTERISTICS

### VALUES

|                                    |                                   |
|------------------------------------|-----------------------------------|
| Manufacturing Process              | Cast                              |
| Thickness (nominal)                | 11.9 Micron / 47 Gauge / 0.47 Mil |
| Color                              | Clear                             |
| Film Width (inches)                | 16"                               |
| Length (feet)                      | 1500'                             |
| Net Weight / Roll (lbs. – nominal) | 4.51 lb                           |
| Roll Diameter (O.D., inches)       | 6"                                |
| Core I.D.                          | 3"                                |

### TESTS

### METHODS

### VALUES

|                                |            |          |
|--------------------------------|------------|----------|
| Haze                           | ASTM D1003 | 1.5%     |
| Gloss                          | ASTM D2457 | 82%      |
| Tensile Strength at Break (MD) | ASTM D882  | 7600 psi |
| Tensile Strength at Break (TD) | ASTM D882  | 4000 psi |
| Elongation at Break (MD)       | ASTM D882  | 240%     |
| Elongation at Break (TD)       | ASTM D882  | 780%     |
| Elmendorf Tear Strength (MD)   | ASTM D1922 | 80 g     |
| Elmendorf Tear Strength (TD)   | ASTM D1922 | 325 g    |
| Cling                          | ASTM D5458 | 75 g     |



[tufflexpackaging.com](http://tufflexpackaging.com)

844-VERITIV

1000 Abernathy Rd. NE, Suite 1700 | Atlanta, GA 30328 | USA

# V00210

## TUFFlex Premium Plus Handwrap

11.9 Micron / 47 Gauge / 0.47 Mil

*Not intended as limiting specifications*

### CHARACTERISTICS

### VALUES

|                                    |                                   |
|------------------------------------|-----------------------------------|
| Manufacturing Process              | Cast                              |
| Thickness (nominal)                | 11.9 Micron / 47 Gauge / 0.47 Mil |
| Color                              | Clear                             |
| Film Width (inches)                | 18"                               |
| Length (feet)                      | 1500'                             |
| Net Weight / Roll (lbs. – nominal) | 5.08 lb                           |
| Roll Diameter (O.D., inches)       | 6"                                |
| Core I.D.                          | 3"                                |

### TESTS

### METHODS

### VALUES

|                                |            |          |
|--------------------------------|------------|----------|
| Haze                           | ASTM D1003 | 1.5%     |
| Gloss                          | ASTM D2457 | 82%      |
| Tensile Strength at Break (MD) | ASTM D882  | 7600 psi |
| Tensile Strength at Break (TD) | ASTM D882  | 4000 psi |
| Elongation at Break (MD)       | ASTM D882  | 240%     |
| Elongation at Break (TD)       | ASTM D882  | 780%     |
| Elmendorf Tear Strength (MD)   | ASTM D1922 | 80 g     |
| Elmendorf Tear Strength (TD)   | ASTM D1922 | 325 g    |
| Cling                          | ASTM D5458 | 75 g     |

# TUFFlex™

tufflexpackaging.com

844-VERITIV

1000 Abernathy Rd. NE, Suite 1700 | Atlanta, GA 30328 | USA

 Veritiv

# V00263

## TUFFflex Premium Plus Handwrap

14.5 Micron / 57 Gauge / 0.57 Mil

*Not intended as limiting specifications*

### CHARACTERISTICS

### VALUES

|                                    |                                   |
|------------------------------------|-----------------------------------|
| Manufacturing Process              | Blown                             |
| Thickness (nominal)                | 14.5 Micron / 57 Gauge / 0.57 Mil |
| Film Width (inches)                | 18"                               |
| Length (feet)                      | 1500'                             |
| Net Weight / Roll (lbs. – nominal) | 6.15 lb                           |
| Roll Diameter (O.D., inches)       | 4.9"                              |
| Core I.D.                          | 3"                                |

### TESTS

### METHODS

### VALUES

|                               |                  |             |
|-------------------------------|------------------|-------------|
| Ultimate Tensile MD (PSI)     | ASTM D 882       | 7000 PSI    |
| Ultimate Tensile TD (PSI)     | ASTM D 882       | 4900 PSI    |
| Elongation MD (%)             | ASTM D 882       | 450%        |
| Elongation TD (%)             | ASTM D 882       | 600%        |
| Tear Resistance MD (grams)    | ASTM D 1922      | 160 G/MIL   |
| Tear Resistance TD (grams)    | ASTM D 1922      | 750 G/MIL   |
| Puncture Resistance (in-lbs.) | ASTM D 4649      | 14.3 IN-LBS |
| Ultimate Prestretch (%)       | Mfg. / Highlight | N/A         |
| Cling (in to out, grams)      | Mfg. method      | 150 G/IN    |



[tufflexpackaging.com](http://tufflexpackaging.com)

844-VERITIV

1000 Abernathy Rd. NE, Suite 1700 | Atlanta, GA 30328 | USA

