

## 3M Scotchrap™ 50 Tape

Category : Polymer , Tape , Thermoplastic , Vinyl (PVC)

### Material Notes:

3M™ Scotchrap™ Tapes 50 and 51 are tough, polyvinyl chloride based tapes with special high tack adhesives formulated to resist corrosion of metal piping systems above and below ground, fittings and joints on all mill-coated pipe and electrical conduit systems. These tapes are: Resistant to salt water, soil acids, alkalies and salts, common chemicals, chemical vapors, and exposure to outdoor weathering and sunlight. Resistant to impact, abrasions, punctures, and tears. Tape 50 is a highly conformable, all-weather 10 mil (0.254 mm) thick tape designed for application over a wide temperature range. Information provided by 3M

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_3M-Scotchrap-50-Tape.php](http://www.lookpolymers.com/polymer_3M-Scotchrap-50-Tape.php)

| Physical Properties      | Metric                     | English                          | Comments   |
|--------------------------|----------------------------|----------------------------------|------------|
| Water Vapor Transmission | 15.5 g/m <sup>2</sup> /day | 0.998 g/100 in <sup>2</sup> /day | ASTM D3833 |
| Thickness                | 254 microns                | 10.0 mil                         | ASTM D1000 |

| Mechanical Properties | Metric                | English              | Comments                        |
|-----------------------|-----------------------|----------------------|---------------------------------|
| Elongation at Break   | 100 %                 | 100 %                | ASTM D1000                      |
|                       | @Temperature -12.0 °C | @Temperature 10.4 °F |                                 |
|                       | 200 %                 | 200 %                | ASTM D1000                      |
|                       | @Temperature 23.0 °C  | @Temperature 73.4 °F |                                 |
| Peel Strength         | 0.219 kN/m            | 1.25 pli             | Adhesion to Steel; ASTM D1000   |
|                       | @Temperature 23.0 °C  | @Temperature 73.4 °F |                                 |
|                       | 0.219 kN/m            | 1.25 pli             | Adhesion to Backing; ASTM D1000 |
|                       | @Temperature 23.0 °C  | @Temperature 73.4 °F |                                 |
|                       | 0.3287 kN/m           | 1.875 pli            | Adhesion to Steel; ASTM D1000   |
|                       | @Temperature -12.0 °C | @Temperature 10.4 °F |                                 |
|                       | 0.3287 kN/m           | 1.875 pli            | Adhesion to Backing; ASTM D1000 |
|                       | @Temperature -12.0 °C | @Temperature 10.4 °F |                                 |

| Thermal Properties               | Metric   | English  | Comments    |
|----------------------------------|----------|----------|-------------|
| Maximum Service Temperature, Air | 65.6 °C  | 150 °F   | Application |
|                                  | 80.0 °C  | 176 °F   |             |
| Minimum Service Temperature, Air | -48.0 °C | -54.4 °F |             |

| Thermal Properties | -12.0 °C<br>Metric | 10.4 °F<br>English | Application<br>Comments |
|--------------------|--------------------|--------------------|-------------------------|
|--------------------|--------------------|--------------------|-------------------------|

| Electrical Properties | Metric     | English    | Comments   |
|-----------------------|------------|------------|------------|
| Dielectric Breakdown  | >= 12000 V | >= 12000 V | ASTM D1000 |

| Processing Properties | Metric | English | Comments  |
|-----------------------|--------|---------|-----------|
| Moisture Content      | 0.30 % | 0.30 %  | ASTM D570 |

| Descriptive Properties | Value | Comments |
|------------------------|-------|----------|
| Appearance             | Black | Backing  |
|                        | Black | Adhesive |

## Contact Songhan Plastic Technology Co.,Ltd.

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