



POWERPACK, LLC

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PRODUCT SPECIFICATION

| | |
|---------------------|---------------------------|
| PRODUCT DESCRIPTION | POLYETHYLENE STRETCH FILM |
| Item Code | PP2047MN |
| | High Performance Film |

We hereby certify that product delivery to you have been tested and confirm to the following specification.
LLDPE stretch film for use for hand wrap.

| PHYSICAL PROPERTIES | Units | Tolerance +/- | Specification | TESTING METHOD |
|-----------------------|-------------------|---------------|------------------|--------------------|
| THICKNESS | Gauge | 1 um | 47 | Thickness Gauge |
| WIDTH | Inches | 5 mm | 20 | Measuring Tape |
| LENGTH | Feet | 5 m | 5000 | High Speed Encoder |
| DENSITY | g/cm ³ | - | 0.91-0.92 | ASTM D-1505 |
| MECHANICAL PROPERTIES | Units | Tolerance +/- | Specification | TESTING METHOD |
| TENSILE STRENGTH. MD | Mpa | 10% | 33 | ASTM D 882 |
| TD | | 10% | 20.5 | |
| BREAK ELONGATION MD | % | 10% | 430 | |
| TD | | 10% | 545 | |
| DART DROP | g | 10% | 105 | ASTM D 1709 |
| PUNCTURE | N | 10% | 15.5 | FPT-750 |
| STRETCHING LEVEL | % | - | 320 | |

The above mentioned data refer to standard tests carried out in our laboratory. They are to be considered as merely indicative, in order to simplify the choice and use of the relevant field of application, but are not given for guarantee purposes.

Powerpack reserves the right to modify these data if necessary, without prior notice.

Our products validity period is 1 year from production date. Any complaint(s) must notified 30 days from date goods receipt.

The tolerance for:
Film Net Weight = ± 3%
Paper Core Weight = ± 10%

| CONDITION OF TESTING |
|--|
| TEMPERATURE 26 +/- 2 °C RELATIVE HUMIDITY : 57 +/- 2% |

Approved:
(Computer document, a signature is not required)