

Product Data Sheet

SAFEWELD® 180FR APP

| <u>Physical Properties (ASTM D5147):</u> | <u>Test Results</u> | <u>ASTM D6222 Minimum Standard</u> |
|--|---------------------|------------------------------------|
| Tensile Strength (lbf/in), 0°F (MD/XMD) | 135/115 lbf/in | 60 lbf/in |
| Tensile Strength (lbf/in), 73°F (MD/XMD) | 114/85 lbf/in | 50 lbf/in |
| Elongation (% @ Max Load), 0°F, (MD/XMD) | 52/56% | 10% |
| Elongation (% @ Max Load), 73°F (MD/XMD) | 47/47% | 23% |
| Elongation (% @ 5% Max Load), 73°F (MD/XMD) | 52/53% | 3% |
| Tear Strength (lbf), (MD/XMD), 73°F, minimum | 134/122 lbf | 70 lbf |
| Low Temperature Flexibility, (°F), maximum | 32°F (0°C) | 32°F |
| Dimensional Stability, %, maximum | <0.5% | 1% |
| High Temperature Stability, (°F) | 230°F (110°C) | 230°F |
| Water Absorption, %, maximum | pass | <3.2% |
| Moisture Content, %, maximum | pass | <1% |
| Granule Embedment, g, maximum | 1.5 g | <2.0 g |

SafeWeld® 180M APP is a durable fire-resistant, granule surfaced, premium APP (Atactic-Polypropylene) cold adhesive applied/welded lap membrane. Manufactured with a strong non-woven polyester mat that is saturated and coated with a premium quality, non-blown asphaltic bitumen and APP resins for a durable, heat resistant, flexible and easily maintainable membrane. It is designed for use as a cap sheet in cold applied APP modified bitumen roof systems.

Product Name: SafeWeld® 180FR APP

Classification: APP Modified Bitumen

Application Method: SafeWeld® 180FR APP is applied using USP® 901 Modified Adhesive with heat welded seams.

Approvals: Meets ASTM D 6222 Type I, Grade G. SafeWeld® 180FR APP is UL Classified with Underwriter's Laboratories (UL), is Factory Mutual (FM) Approved, and listed with Florida Building Code (FBC) FL-14405, Texas Department of Insurance (TDI) RC-123, and is Miami-Dade County Approved. Contact U.S. Ply, Inc. for specific/applicable codes.

Product Data: SafeWeld® 180FR APP (typical)

Thickness: 4.3 mm (170 mils)
 Weight: 105 lbs/roll (48 kg/m²)
 Roll Dimensions: 39 3/8" x 32' 9" (1m x 10m). Each roll is approximately 1 square applied.

Green Standards Information: SafeWeld® 180FR APP contains approximately 9.6% of recycled materials by product weight. 3.2% of materials are comprised of post consumer recycled materials and 6.4% of materials are comprised of pre consumer recycled materials. The post consumer recycled materials are derived from recycled post consumer plastics which averts disposal in landfills or commercial dumps. The pre consumer recycled materials are derived from reclaimed non-hazardous coal combustion by-product waste which averts disposal of coal by-product waste in landfills or commercial dumps.

All values given are approximate and are subject to change without notice. There is no implied or express warranty given through these values or statements, nor are there any assertions that the product purchased has been individually tested to conform to these standards. Testing is performed on a random basis by "in-house" and independent "third party" evaluation for the purpose of classification and or approval. Acceptance, purchase and selection of these products are the sole responsibility of the buyer or buyer's representative. We assume no responsibility for coverage, performance or injuries resulting from use. Liability, if any, is limited to replacement of the product. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY U.S. PLY, INC. EXPRESSED OR IMPLIED; STATUTORY, BY OPERATION OF LAW, OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

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