



IKO TECHNICAL DATA SHEET

STOCK NO. 7730091

DEC, 2023

Modiflex MP-180-FS-Base (3.0mm)

Modiflex MP-180-FS-Base (3.0mm) is constructed using a tough non-woven reinforced polyester mat strengthened with select glass fiber strands. Modiflex MP-180-FS-Base is an excellent choice as the "lay flat" base sheet in a layered membrane construction system. This base sheet is coated top and bottom with select SBS polymers and premium asphalt. The top surface is covered with a thin micro-perforated film, which disappears upon heat welding, while the underside is sanded to allow installation via mopping asphalt or an IKO-approved cold process adhesive. This product meets the requirements of CSA A123.23 Type A Grade 3.

| CHARACTERISTICS | UNITS | SPECIFICATION | TEST METHOD | TYPICAL TEST PERFORMANCE |
|--|--|---------------|-------------|--------------------------|
| Rolls per Pallet: | - | - | - | 32 |
| Length: | m (ft) | - | - | 10 (32.8) |
| Width: | mm (in) | - | - | 1005 (39.6) |
| Thickness: | mm (mils) | - | - | 3.0 (118) |
| Selvage Width: | mm (in) | - | - | 90 (3.5) |
| Selvage Thickness: | mm (mils) | CSA A123.23 | ASTM D5147 | 2.65 (104) |
| Mass Per Unit Area: | kg/m ² (lb/100ft ²) | CSA A123.23 | ASTM D5147 | 3.29 (67.3) |
| Strain Energy, @ 23 °C MD/XD: | | | | |
| Before heat conditioning | kN/m (lbf/in) | CSA A123.23 | ASTM D5147 | 19.1/18.1 (12.6/10.7) |
| After heat conditioning | | | | 17.4/8.41(11.9/9.76) |
| Strain Energy, @ -18 °C MD/XD: | | | | |
| Before heat conditioning | kN/m (lbf/in) | CSA A123.23 | ASTM D5147 | 18.4/10.2 (9.59/11.1) |
| After heat conditioning | | | | 20.9/16.4 (9.65/9.45) |
| Peak Load, @ 23 °C MD/XD: | | | | |
| Before heat conditioning | kN/m (lbf/in) | CSA A123.23 | ASTM D5147 | 12.7/9.09 (96.4/77.6) |
| After heat conditioning | | | | 16.1/10.8 (87.5/49.5) |
| Peak Load, @ -18 °C MD/XD: | | | | |
| Before heat conditioning | kN/m (lbf/in) | CSA A123.23 | ASTM D5147 | 18.9/17.3(128/77.3) |
| After heat conditioning | | | | 25.0/20.8 (108/89.0) |
| Elongation @ Peak Load @ 23 °C MD/XD: | | | | |
| Before heat conditioning | % | CSA A123.23 | ASTM D5147 | 96.4/77.6 |
| After heat conditioning | | | | 5.33/39.3 |
| Elongation @ Peak Load @ -18 °C MD/XD: | | | | |
| Before heat conditioning | % | CSA A123.23 | ASTM D5147 | 30.0/44.5 |
| After heat conditioning | | | | 6.50/13.5 |
| Ultimate Elongation @ 23 °C MD/XD: | | | | |
| Before heat conditioning | % | CSA A123.23 | ASTM D5147 | 45.5/58.4 |
| After heat conditioning | | | | 46.4/40.2 |
| Low Temperature Flexibility MD/XD: | | | | |
| Before heat conditioning | °C | CSA A123.23 | ASTM D5147 | -18/-18 |
| After heat conditioning | | | | -18/-18 |
| Dimensional Stability MD/XD: | % | CSA A123.23 | ASTM D5147 | -0.06/-0.35 |
| Compound Stability: | °C (°F) | CSA A123.23 | ASTM D5147 | 102 |
| Resistance to puncture: | - | CSA A123.23 | CSA A123.23 | Pass |

IKO's products adhere to the industry standards of the jurisdiction in which they are sold by IKO. Numerical testing scores listed herein, if any, relate only to the samples tested and the standards & procedures listed herein. IKO does not guarantee that every IKO product will, upon similar testing, reveal an identical score to those set forth herein. IKO does not accept responsibility for any matters arising or consequences from the use of numerical testing scores.