

**Physical Properties:** Complies with CSA A123.23-15, Type B, Grade 1

Properties	Requirement	Before Heat Conditioning	After Heat Conditioning
Strain energy, min MD/XD At 23 °C ± 2 °C (73.4 °F ± 3.6 °F) At -18 °C ± 2 °C (0 °F ± 3.6 °F)	5.5 (31) 3.1 (17)	10.3/6.2 kN/m (58.4/35.2 lbf/in) 5.2/4.2 kN/m (29.5/23.8 lbf/in)	8.6/5.6 kN/m (48.8/31.8 lbf/in) 5.0/4.2 kN/m (28.4/23.8 lbf/in)
Peak load, min MD/XD At 23 °C ± 2 °C (73.4 °F ± 3.6 °F) At -18 °C ± 2 °C (0 °F ± 3.6 °F)	See tested Value	19.0/12.0 kN/m (107.7/68.0 lbf/in) 19.3/15.3 kN/m (109.4/86.8 lbf/in)	17.9/12.1 kN/m (101.5/68.6 lbf/in) 16.6/12.4 kN/m (94.1/70.3 lbf/in)
Elongation at peak load, min MD/XD At 23 °C ± 2 °C (73.4 °F ± 3.6 °F) At -18 °C ± 2 °C (0 °F ± 3.6 °F)	See tested value	32.9/30.2 % 12.8/12.7 %	21.5/23.5 % 11.1/18.4 %
Ultimate elongation at 23 °C ± 2 °C (73.4 °F ± 3.6 °F) MD/XD	See tested value	32.9/30.2 %	26.3/23.5 %
Low temperature flexibility, max MD/XD	-18 °C (-0F)	-18/-18°C (0/0°F)	-18/-18 °C (0/0 °F)
Low temperature flexibility after UV weathering, max MD/XD	-12°C (10F)	-18/-18°C (0/0 °F)	
Compound stability, in	102°C (215 °F)	107°C (225 °F)	
Dimensional stability, max MD/XD	0.5%	±0.4/±0.4 %	
Resistance to Puncture	Pass/Fail	Pass	
Granule Embedment, max	2.0 g (0.07 oz)	0.4 g	

All values are nominal. | NA: Not Applicable

## Packaging

Product	Thickness mm (mils)	Selvage Thickness mm (mils)	Mass per unit area kg/m <sup>2</sup> (lb./100 ft <sup>2</sup> )	Back Surface Coating Thickness Min. mm (mils)	Roll Length M (ft)
Requirement	3.3 (130)	2.2 (85)	3.7 (75)	1.0 (40)	NA
NP180gM4	3.5 (140)	2.5 (98)	4.1 (83)	NA	10 M (32.9 ft.)
NP180gT4	4.0 (160)	3.0 (118)	4.5 (92)	1.0 (40)	8 M (26.3 ft.)

All values are nominal.

### Uses

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*modifiedPLUS*<sup>®</sup> **NP180 Cap Sheets** is used as the top ply in a two-ply roofing system and as a flashing membrane for modified bitumen roofing, conventional built-up roofing and as a maintenance repair material.

**NP180gM** has a sanded lower surface for mopping or cold adhering to substrate

**NP180gT4** has a thermofusible poly lower surface for torching to substrate

### Features

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- Designed for application in new construction, re-roofing and retrofit roofing
- Factory applied surface granules to enhance ultra-violet resistance and surface durability
- Proprietary 180g/m<sup>2</sup> reinforcement provides increased flexibility
- SBS polymer provides flow resistance at high temperatures and flexibility at low temperatures for lasting durability
- Excellent tear resistance

### Limitations

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Non-resistant to oils and solvents. Refer to manufacturer for specific chemical resistance.

### Storage

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Store rolls on end, on original pallets or elevated platform. Protect from weather or store in an enclosed area not subject to heat over 49°C (120°F).

### Preparation

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*modifiedPLUS*<sup>®</sup> **NP180 Cap Sheets** are designed as a cap sheet over a suitable base sheet. Refer to *modifiedPLUS*<sup>®</sup> base sheet specification data and *modifiedPLUS*<sup>®</sup> General Specifications for details on acceptable decks, insulation substrates and base sheet application.

### Application

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Roll out *modifiedPLUS*<sup>®</sup> **NP180 Cap Sheets** and allow to relax prior to application. Begin application of the cap sheet at the lowest edge or drain. Proceed up the slope from the lowest point. Position and unroll cap sheet to achieve correct overlap and alignment. Re-roll one end a minimum of 3 m (10') and adhere membrane to substrate. Complete application of remainder of sheet.

#### Mopping Application: Use NP180gM

Roofing asphalt shall be **SEBS 890-12** or CSA A123.4 M Type 2 or Type 3 for slopes up to 1:16 and Type 3 for slopes of greater than 1:16. Use **SEBS 890-12** or Type 3 for all flashing. Asphalt must be applied hot, so that its mopping temperature is not below 204°C (400°F) when measured at the mop cart, to facilitate correct interply thickness, adhesion and uniformity. The roofing membrane must be unrolled into the hot asphalt immediately.

Mopping should not be more than 1.2 m (4') ahead of unrolling. Unroll into asphalt mopped at the rate of 1 to 1.5 kg/m<sup>2</sup> (20-30 lbs./100 ft<sup>2</sup>), lapping 75 mm (3") on sides and 150 mm (6") on ends. The presence of a continuous, firmly bonded film of asphalt should be observed flowing out of the seams. Mopping at ambient temperatures below 4°C (40°F) requires special care and treatment. Refer to *modifiedPLUS*<sup>®</sup> General Specifications.

#### Cold Adhered Application: Use NP180gM

Apply **MBA Gold**<sup>®</sup> Elastomeric Modified Bitumen Adhesive by spray or notched squeegee to laps as well as the field of the sheet at the rate of approximately 0.6 l/m<sup>2</sup> (1.5 U.S. gal./100 ft<sup>2</sup>). A notched squeegee with notches 6mm (1/4") long, 3mm (1/8") deep, spaced on 25mm (1") is ideal for smooth surfaces. For irregular surfaces the notches should be 6mm (1/4") deep. Best results occur above 5°C (40°F). The adhesive thickens at colder temperatures and proper coverage becomes difficult.

## NP180 Cap Sheets

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Roll out *modifiedPLUS*® **NP180gM** and allow to relax prior to application. Apply adhesive to substrate and allow 3 to 5 minutes open time prior to rolling in membrane. Installation without allowing open time could result in prolonged softening of the membrane or blisters. For flashings, apply **Flashing Adhesive** by brush to substrate and back of sheet, allow approximately 10 minutes open time so that the adhesive becomes tacky. Set flashing in place and apply firm pressure to ensure total and firm contact with substrate.

### **Thermofused Application: Use NP180gT4**

Heat lower surface of membrane evenly across width of roll. Sufficient heat should be applied to melt the lower surface and provide a flow of bitumen. At the same time unroll the roofing membrane into the melted bitumen. Care should be taken to ensure that heating is even across the width to avoid skips or voids and bitumen should flow out from lap to ensure a tight seal. Add matching granules to cover the excess bitumen flow at seams.

**Slopes 1:12 (1" in 12") or Greater:** In addition to the above, on slopes of 1:12 (1" in 12") or greater, apply membrane parallel to direction of slope and blind nail or mechanically fasten membrane at end or head lap on 150 mm (6") centres.

## Warranty

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**Henry Canada** warrants to the owner, that the *modifiedPLUS*® modified bitumen membrane, when installed by a participating contractor subject to the conditions and limitations contained within the warranty, will remain watertight for a period as outlined. All leaks or roof problems, on warranted roofs, must be reported to the manufacturer in writing within a period of 30 days.

For more information, visit [www.henry.com](http://www.henry.com) or for technical assistance call us at 800-486-1278. For more information on Henry's® product warranty and liability disclaimer please visit [www.henry.com/warranty](http://www.henry.com/warranty). Refer to the Safety Data Sheet prior to using this product. The Safety Data Sheet is available at [www.henry.com](http://www.henry.com) or by emailing Henry® Product Support at [productsupport@henry.com](mailto:productsupport@henry.com) or by calling 800-486-1278.

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