

## Ultra White Class A - NP180 Cap Sheet

**NP180TUF**

### Physical Properties: Complies with ASTM D 6164 Type 1, Grade S

-Breaking Strength	MD 1206N (272 lbf) XD 808N (182 lbf)	-Dynamic Impact (Puncturing)	Passed
-Ultimate Elongation	MD 41% XD 46%	-Static Puncturing	Passed
-Load Strain	MD 49446 XD 37168	-Lap Joint Strength	
-Water Resistance	0.83g	After 5 days at 23°C	858N (193 lbf)
Water Absorption	MD 0.61%	After 5 days at 50°C	804N (181 lbf)
Dimensional Change	XD 0.17%	(H <sub>2</sub> O)	
-Low Temperature Flexibility at -15°C (+ 5°F)	No sign of cracking Pass water tightness	After 5 days at 50°C (H <sub>2</sub> O) & 5 cycles of freeze thaw	793N (179 lbf)
-Water Vapour Transmission	0.02 g/m <sup>2</sup> .24 hr.	-Granule Embedment	0.13g
<b>-Solar Reflectance Index</b>	<b>0.45 (ASTM C-1549)</b>	-Accelerated Weathering 1080 2h cycles	Pass
<b>-Solar Emittance</b>	<b>0.85 (ASTM C1371)</b>	-Crack Bridging	> 10 cycles at Minus 20°C (Minus 4°F)
<b>-Solar Reflectance Index</b>	<b>50 (ASTM E1980)</b>		

### Packaging

-Thickness	4.0 mm (160 mils)	
-Roll Length	8 m (26.3 ft.)	
-Roll Width	1 m (39 3/8")	
-Gross Coverage	8 m <sup>2</sup> (86 ft <sup>2</sup> )	
-Net Coverage	7.25 m <sup>2</sup> (78 ft <sup>2</sup> )	
-Top Surface	Ceramic Granules	

### Uses

modifiedPLUS® **NP180TUF Fire-Rated Cap Sheet** is used as the top ply in a two-ply roofing system and as a flashing membrane for modified bitumen, conventional built-up roofing and as a maintenance repair material. Classified by Underwriters Laboratories Inc. for Class A roof covering, fire resistance.

- Used where a highly reflective, Ultra White Surface is required
- **NP180TUF** has a thermofusible poly lower surface for torching to substrate.
- **NP180TUF** has a thermofusible poly lower surface for torching to substrate and is Classified by Underwriters Laboratories Inc. for Class A roof covering, fire resistance.

## **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
- Polyester reinforced for high strength and flexibility at all temperatures
- Non-woven polyester, 180g/m<sup>2</sup> reinforcement
- SBS polymer provides flow resistance at high temperatures and flexibility at low temperatures for lasting durability
- Excellent tear resistance
- Can contribute to **LEED credits**
- Classified by Underwriters Laboratories Inc. for Class A roof covering, fire resistance
- Factory Mutual Approved

## **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> **NP180TUF Cap Sheet** is 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> **NP180TUF** 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.

### **Thermofused Application: Use NP180TUF**

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.

## **LEED Credit**

*modifiedPLUS*<sup>®</sup> **Ultra White** cap sheets can comply with LEED Credit SS7.2 by coating 25% of the roof surface with highly reflective **HE280DC Elastomeric White Coating** (SRI of 112).

## **Warranty**

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**Henry Canada**, warrants to the owner, that the *modifiedPLUS*<sup>®</sup> 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.