

MAMMOUTH NEO[®] CAP

TPU Roofing Membrane (Thermoplastic Polyurethane)



APPLICATIONS

ROOFING

PRODUCT DATA SHEET PDS10267 - REV 230425

PRODUCT NUMBERS:

- 26483 - 32.8 ft x 39.4 in (10 x 1 m) - Roll

DESCRIPTION & FEATURES:

MAMMOUTH NEO CAP is a thermoplastic polyurethane (TPU) cap ply approved for use in roofing assemblies.

MAMMOUTH NEO CAP consists of a proprietary formulation of the bio-based TPU polymer and is reinforced with a tough, dimensionally stable non-woven composite polyester mat.

- Thermoplastic Polyurethane Polymer Chemistry - Combines two of the most effective waterproofing materials on the market - polyurethane and asphalt.
- UV Resistant - NEO membranes retain their physical properties when exposed to UV radiation and weathering much slower compared to modified bitumen membranes.
- Excellent Heat & Chemical Resistance - The TPU modifier in the NEO membranes has extremely high heat resistance and much better thermal cycling performance than standard modified bitumen membranes.
- Lower Overall Cost of Ownership - Potential savings of 30 - 50% to building owner at time of reroof. Savings estimate based upon building owner avoiding costs at year 25 or after, when reroof is typically needed.

APPLICATION:



COLD
ADHESIVE

Prior to installation, unroll **MAMMOUTH NEO CAP** onto the SBS-modified bitumen membrane base and allow to relax. Place **MAMMOUTH NEO CAP** in desired position and back roll the product. Apply approved cold adhesive following the manufacturer specifications. **MAMMOUTH NEO CAP** is then placed into the cold adhesive and rolled with a weighted roller to ensure adhesion.

Refer to SOPREMA's published technical literature for additional details and application requirements.

STORAGE:

Store rolls in an upright position to prevent damage and do not double stack pallets. Store in a clean, dry location and cover as necessary to protect from environmental damage such as extreme cold, heat or moisture.

WARRANTY:

For more information refer to www.SOPREMA.us or contact your SOPREMA representative.

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TECHNICAL INFORMATION & TESTING:

SHEET PROPERTIES	
PROPERTY	VALUE
Technology	Thermoplastic polyurethane
Reinforcement	Composite
Top surfacing	Black slate
Back surfacing	Sanded
Selvage width, in (mm)	4 (102)

DIMENSIONS & MASS		
PROPERTY	VALUE	ASTM TEST METHOD
Length, ft (m)	32.8 (10.0)	D5147
Width, in (m)	39.4 (1.0)	D5147
Coverage,* ft ² (m ²)	97.9 (9.1)	D5147
Roll weight, lb (kg)	93 (42.3)	D5147
Rolls per pallet	25	D5147
Pallet weight, lb (kg)	2,375 (1,077.3)	D5147
Thickness, mils (mm)	114 (2.9)	D5147

*Coverage rate as reported assumes installation using side and end lap recommendations.

PHYSICAL PROPERTIES					
PROPERTY	PRE HEAT CONDITIONING		POST HEAT CONDITIONING		ASTM TEST METHOD
	MD	XMD	MD	XMD	
Peak load @ 0°F (-18°C), lbf/in (kN/m)	75(13.1)	75(13.1)	75(13.1)	75(13.1)	D5147
Elongation at break @ 0°F (-18°C), %	1	1	1	1	D5147
Tear strength @ 0°F (-18°C), lbf/in (kN/m)	17 (3)	17 (3)	17 (3)	17 (3)	D5147
Peak load @ 73.4°F (23°C), lbf/in (kN/m)	75 (13.1)	75 (13.1)	75 (13.1)	75 (13.1)	D5147
Elongation at break @ 73.4°F (23°C), %	2	2	2	2	D5147
Tear strength @ 73.4°F (23°C), lbf/in (kN/m)	31 (5)	31 (5)	31 (5)	31 (5)	D5147
Ultimate elongation @ 73.4°F (23°C), %	26	26	9	9	D5147
Low temperature flexibility, °F (°C)	0 (-18)	0 (-18)	0 (-18)	0 (-18)	D5147
Low temperature flexibility after UV weathering, °F (°C)	10 (-12)				D5147
Compound stability, °F (°C)	195 (91)				D5147
Dimensional stability, %	≤ 0.5				D5147
Puncture resistance	Pass				D5147

SUSTAINABILITY



PRODUCT BIO-BASED CONTENT	COOL ROOF	SRI	EPD
TPU Polymer: 75% Membrane: 11.26%	N/A	< 25	Yes

