

Meets the requirements of ASTM D 6222, Type I, Grade S

## Features and Components

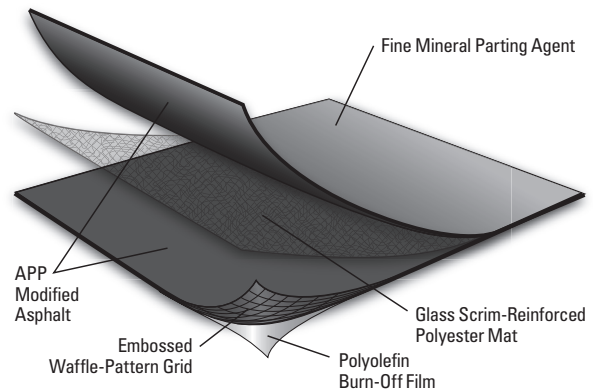
APPeX 4S is used as a cap or base sheet in APP multi-ply roofing systems.

### Premium APP (Atactic Polypropylene) Polymer and Asphalt Blend:

Provides an extremely durable sheet with excellent weathering characteristics, flexibility and dimensional stability for ease of handling and quick installations.

**Polyester Reinforcement Mat:** Provides bidirectional glass-scrim reinforcement and offers robust tear strength and puncture resistance, allowing for high wind performance and excellent hail rating. The sheet also exhibits strong dimensional stability and enhanced elongation.

**Surfacing:** Fine mineral parting agent on the top of the sheet. A polyolefin burn-off film on the bottom side enables the product to be applied using heat-welding techniques.



<b>Component</b>
<b>M</b> Membrane
Multi-Ply
<b>Type</b>
<b>CS</b> Cap Sheet
<b>PS</b> Ply Sheet
<b>FL</b> Flashing



**System Compatibility** This product may be used as a component in the following systems. Please reference product application for specific installation methods and information.

Multi-Ply	BUR		APP		SBS			
	HA	CA	CA	HW	HA	CA	HW	SA

Compatible with the selected Multi-Ply systems above

Single Ply	TPO		PVC		EPDM	
	MF	FA	MF	FA	MF	BA

Do not use in Single Ply systems

**Key:** HA = Hot Applied CA = Cold Applied HW = Heat Weldable SA = Self Adhered MF = Mechanically Fastened FA = Fully Adhered BA = Ballasted

## Energy and the Environment

Pre-consumer Recycled Content	0%
Post-consumer Recycled Content	0%

## Peak Advantage<sup>®</sup> Guarantee Information

Systems	Guarantee Term
Dependent on system*	Up to 20 years

\*Contact JM Technical Services for specific system requirements or guarantee terms.

## Codes and Approvals



- UL Class A ratings may be obtained in numerous constructions, both new and re-roof at slopes up to 1" per foot (83 mm/m).

## Product Application



Heat Weld

- When used as a cap sheet, the use of an approved surfacing is required.
- Refer to JM APP modified bitumen specifications and detail drawings for application and slope information.

## Packaging and Dimensions

Roll Width	39 3/8" (1 m)
Roll Length	32' 10" (10.01 m)
Roll Coverage*	95.8 ft <sup>2</sup> (8.9 m <sup>2</sup> )
Roll Weight	89 lb (39.9 kg)
Rolls per Pallet	25
Pallets per Truck**	21

\*Assumes a 4" side lap.

\*\* Assumes a 48' flatbed truck.

Refer to the Safe Use Instructions and product label prior to using this product. The Safe Use Instructions are available by calling (800) 922-5922 or on the Web at [www.jm.com/roofing](http://www.jm.com/roofing).

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## Tested Physical Properties

Physical Properties		ASTM Test Method	Standard for ASTM D 6222, Type I, Grade S	APPeX 4S Embossed		
				MD*	XMD**	
Strength	Tear Resistance @ 73.4° F	D 4073 / 5147	≥ 70 lbf	122 lbf	92 lbf	
	Peak Load at 0°F (-18°C)	D 5147	≥ 60 lbf/in-width	133 lbf/in-width	107 lbf/in-width	
	Peak Load at 73.4°F (23°C)	Unconditioned	D 5147	≥ 50 lbf/in-width	98 lbf/in-width	66 lbf/in-width
		90-Day Heat Conditioned	D 5147 / 5869	≥ 50 lbf/in-width	102 lbf/in-width	67 lbf/in-width
Longevity	Low Temp. Flexibility @ 180° F Mandrel (Pass-Fail)	Unconditioned	D 5147	Pass @ 32° F "none of the specimens show cracking"	Pass	
		90-Day Heat Conditioned	D 5147 / 5869		Pass	
	Low Temperature Unrolling (Pass-Fail) Unroll in 4-6s; Visual Inspection in "unrolled" position	D 5636	Pass @ 41° F "none of the specimens show cracking"	Pass		
	Compound Stability - 2 hr 15 min @ 230° F (Pass-Fail)	D 5147	Pass "no failures showing signs of flowing, dripping, or drop formation"	Pass		
	Thickness	D 5147	≥ 140 mils	146 mils		
	Bottom Coating Thickness	D 5147	≥ 30 mils	72 mils		
	Water Absorption - water by distillation	D 5147 / 95	≤ 3.2 %	0.6%		
	Moisture Content - water by distillation	D 5147 / 95	≤ 1 %	0.2%		
	Ultimate Elongation at 73.4°F (-18°C)	D 6222	≥ 30 %	52%	49%	
	Elongation at Peak Load @ 0° F	D 5147	≥ 10 %	12%	10%	
	Elongation at Peak Load @ 74.4° F	Unconditioned	D 5147	≥ 23 %	49%	45%
		90-Day Heat Conditioned	D 5147 / 5869	≥ 23 %	41%	32%
Installation	Dimensional Stability - 24 hr @ 176° F	D 5147 / 1204	≤ 1 %	0.30%	0.10%	
	Net Mass per Unit Area	D 146	≥ 70 lb/100 ft <sup>2</sup>	89 lb/100 ft <sup>2</sup>		

\*MD = Machine Direction

\*\*XMD = Cross-Machine Direction

Note: All data represents tested values.