

### Meets the requirements of ASTM D 6222, Type I, Grade G

#### Features and Components

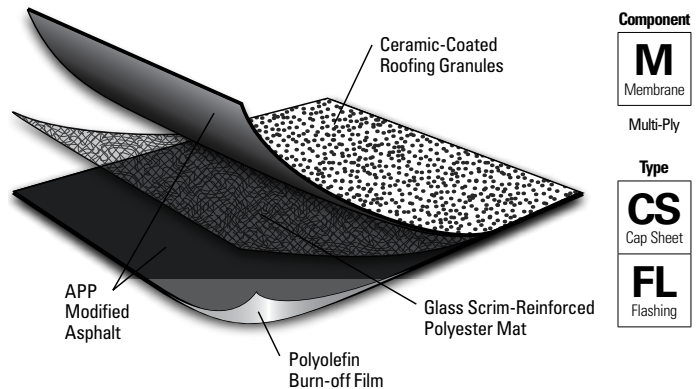
APPEX 4.5M is used as a cap or flashing sheet in APP multi-ply roofing systems.

**Ceramic-Coated Roofing Granules:** Specifically engineered for optimal embedment in the APP-blended sheet. The ceramic coating promotes excellent long-term adhesion.

**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.

**Polyolefin Burn-Off Film:** Promotes ease of heat welding.



**Colors:** White, Black, Tan, Brown, Grey, Terra Cotta, Weathered Wood, Chestnut, Burnt Sienna, Red, and Slate.

#### 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
<i>Compatible with the selected Multi-Ply systems above</i>								

Single Ply	TPO		PVC		EPDM	
	MF	FA	MF	FA	MF	BA
<i>Do not use in Single Ply systems</i>						

**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

Test	Initial	3-Year Aged
Reflectivity* (ASTM C 1549)	0.26	0.27
Emissivity* (ASTM C 1371)	0.87	0.84
Solar Reflectance Index* (SRI) - E 1980	25	25
Pre-consumer Recycled Content	0%	
Post-consumer Recycled Content	0%	

#### Peak Advantage® 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).

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).

#### Product Application



Heat Weld

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	112 lb (50.8 kg)
Rolls per Pallet	25
Pallets per Truck**	16

\*Assumes a 4" side lap.

\*\* Assumes a 48' flatbed truck.

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**Tested Physical Properties**

Physical Properties		ASTM Test Method	Standard for ASTM D 6222, Type I, Grade G	APPeX 4.5M		
				MD*	XMD**	
Strength	Tear Resistance @ 73.4° F		D 4073 / 5147	≥ 70 lbf	114 lbf	85 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	83 lbf/in-width	63 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	
	Granule Loss		D 4977/5147	2 g (0.07 oz)	1.8 g (0.06 oz)	
	Thickness		D 5147	≥ 160 mils	160 mils	
	Bottom Coating Thickness		D 5147	≥ 30 mils	53 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 %	53%	62%
	Elongation at Peak Load @ 0° F		D 5147	≥ 10 %	12%	10%
	Elongation at Peak Load @ 74.4° F	Unconditioned	D 5147	≥ 23 %	51%	59%
		90-Day Heat Conditioned	D 5147 / 5869	≥ 23 %	41%	32%
	Installation	Dimensional Stability - 24 hr @ 176° F		D 5147 / 1204	≤ 1 %	0.20%
Net Mass per Unit Area		D 146	≥ 85 lb/100 ft <sup>2</sup>	97 lb/100 ft <sup>2</sup>		

\*MD = Machine Direction

\*\*XMD = Cross-Machine Direction

Note: All data represents tested values.