

USP® APP 160S

USP® APP 160S is a tough smooth surfaced, APP (Atactic Polypropylene) torch applied membrane. Manufactured with a non-woven polyester mat, that is saturated and coated with high quality, non-blown asphaltic bitumen and APP resins for a durable, heat resistant, flexible and easily maintainable membrane. It is designed for use as a base, inter-ply or cap membrane in modified bitumen roof systems.



Product Name: USP® APP 160S

Classification: Meets ASTM D 6222 Type I, Grade

S. APP Modified Bitumen

Application Method: Applied using torch welding

techniques.

 Thickness:
 3.5 mm (140 mils)

 Weight:
 84 lbs/roll (38 kg/m²)

Roll Dimensions: 39 3/8" x 32' 9" (1m x 10m).

Each roll is approximately 1 square applied.

Physical Properties (ASTM D5147):	Test Results	ASTM D6222 Minimum Standard
Tensile Strength (lbf/in), 0°F (MD/XMD)	98/72 lbf/in	60 lbf/in
Tensile Strength (lbf/in), 73°F (MD/XMD)	69/61 lbf/in	50 lbf/in
Elongation (% @ Max Load), 0°F, (MD/XMD)	11/11%	10%
Elongation (% @ Max Load), 73°F (MD/XMD)	56/56%	23%
Elongation (% @ 5% Max Load), 73°F (MD/XMD)	62/62%	30%
Tear Strength (lbf), (MD/XMD), 73°F, minimum	/110/91 lbf	70 lbf
Low Temperature Flexibility, (°F), maximum	pass	32°F
Dimensional Stability, %, maximum	<0.5%	1%
High Temperature Stability, (°F)	pass	230°F
Water Absorption, %, maximum	pass	<3.2%
Moisture Content, %, maximum	pass	<1%

Approvals: UL Classified with Underwriter's Laboratories (UL), is Factory Mutual (FM) Approved, and listed with Florida Building Code (FBC) FL-14405, Texas Department of Insurance (TDI) RC-123, and is Miami-Dade County Approved. Contact U.S. Ply, Inc. for specific/applicable codes.

Application: See most current edition of USP® APP 160 Application Specification Manual for best guidelines for installing this product. Set and align rolls before application with at least 3" (7.6 cm) side laps and 6" (15.3 cm) end laps. Adjacent end laps shall be staggered 18" (45.7 cm). Stagger laps between the base ply and APP membrane. Apply sufficient heat, with a torch, to the back of the sheet to melt the asphalt to a semi-liquid state, while heating the base at the same time. A minimum of 3/8" (10 mm) compound flow-out must be obtained at all seam areas. Do not exceed a maximum 1" (25 mm) compound flow-out. Roll sheet into place, applying pressure with foot or roller on all laps immediately after rolling in. Apply extra pressure to avoid creating open channels, where three or more membranes are

lapped. Base Flashing: APP 160 roof systems must be flashed according to USP® APP 160 Flashing Details. Surfacing: When USP® APP 160S is used as a cap ply it must be coated with a roof coating. All reflective coatings require periodic recoating, which is the responsibility of the owner. The roof coating must be maintained in satisfactory condition to maintain the U. S. Ply warranty coverage.

Green Standards Information: USP® APP 160S contains approximately 4.0% of recycled materials by product weight. Materials are comprised of post-consumer recycled materials. The post-consumer recycled materials are derived from recycled post-consumer plastics which averts disposal in landfills or commercial dumps.

All values given are approximate and are subject to change without notice. There is no implied or express warranty given through these values or statements, nor are there any assertions that the product purchased has been individually tested to conform to these standards. Testing is performed on a random basis by "in-house" and independent "third party" evaluation for the purpose of classification and or approval. Acceptance, purchase and selection of these products are the sole responsibility of the buyer or buyer's representative. We assume no responsibility for coverage, performance or injuries resulting from use. Liability, if any, is limited to replacement of the product. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY U.S. PLY, INC. EXPRESSED OR IMPLIED; STATUTORY, BY OPERATION OF LAW, OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.



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