

# USP<sup>®</sup> TUFFCAP 190M SBS

## STANDARD MODIFIED BITUMEN MEMBRANE

### Product Data Sheet

*“Pioneered With Performance In Mind...  
Engineered To Stand The Test of Time.”*

USP<sup>®</sup> TUFFCAP 190M SBS is a tough mineral surfaced, SBS (Styrene-Butadiene-Styrene) mop or cold applied membrane. Manufactured with a non-woven polyester mat that is saturated and coated with high quality, asphaltic bitumen and SBS elastomers for a durable, flexible and easily maintainable membrane. It is designed for use as a cap membrane in modified bitumen and hybrid built-up roof systems.

<b>Physical Properties (ASTM D5147):</b>	<b>Test Results</b>	<b>ASTM D6164 Minimum Standard</b>
Tensile Strength (lbf/in), 0°F (MD/XMD)	110/92 lbf/in	70 lbf/in
Tensile Strength (lbf/in), 73°F (MD/XMD)	100/75 lbf/in	50 lbf/in
Elongation (% @ Max Load), 0°F, (MD/XMD)	30/26%	20%
Elongation (% @ Max Load), 73°F (MD/XMD)	55/56%	35%
Elongation (% @ 5% Max Load), 73°F (MD/XMD)	57/68%	38%
Tear Strength (lbf), (MD/XMD), 73°F, minimum	112/88 lbf	55 lbf
Low Temperature Flexibility, (°F), maximum	0°F (-18°C)	0°F
Dimensional Stability, %, maximum	<0.5%	1%
High Temperature Stability, (°F)	215°F (101°C)	215°F
Granule Embedment, g, maximum	pass	<2.0 g

**Product Name: USP<sup>®</sup> TuffCap 190M SBS**

**Classification:** SBS Modified Bitumen

**Application Method:** USP<sup>®</sup> TuffCap 190M SBS is applied using compatible hot asphalt or SBS cold adhesive.

**Approvals:** Meets ASTM D 6164 Type I, Grade G. USP<sup>®</sup> TuffCap 190M SBS is UL Classified with Underwriter's Laboratories (UL), is Factory Mutual (FM) Approved, and listed with Texas Department of Insurance (TDI) RC-123. Contact U.S. Ply, Inc. for specific/applicable codes.

**Product Data:** USP<sup>®</sup> TuffCap 190M SBS (typical)

Thickness: 3.8 mm (150 mils)

Weight: 98 lbs/roll (44.5 kg/m<sup>2</sup>)

Roll Dimensions: 39 3/8" x 32' 9" (1m x 10m). Each roll is approximately 1 square applied.

**Green Standards Information:** USP<sup>®</sup> TuffCap 190M SBS contains approximately 10.2% of recycled materials by product weight. 3.4% of materials are comprised of post consumer recycled materials and 6.4% of materials are comprised of pre consumer recycled materials. The post consumer recycled materials are derived from recycled post consumer plastics which averts disposal in landfills or commercial dumps. The pre consumer recycled materials are derived from reclaimed non-hazardous coal combustion by-product waste which

averts disposal of coal by-product waste 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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**CORPORATE HEADQUARTERS: P.O. BOX 11740, FORT WORTH, TEXAS 76110**

**TOLL-FREE: 866-PUSH-PLY (866) 787-4759 LOCAL: (817) 413-0103 • FAX: (817) 413-8221**  
WWW.USPLY.COM