

Sunbrella Horizon

PROPERTY	SPECIFICATION	TEST METHOD		
Material Content	100% Vinyl with Knit Polyester Backing			
Fabric Weight	720 g/m ²	ASTM D3776		
Width	137 cm	NTC 228		
Thickness	1.20 – 1.60 mm	NT 8.2.4-032 Test Nº1		
Bond Strength Adhesion of Vinyl Film to Fabric Warp	>38.41 N/cm	ASTM D751		
Bond Strength Adhesion of Vinyl Film to Fabric Filling	>38.41 N/cm	ASTM D751		
Colour Reading	<0.8 ΔE CMC Units	NT 8.2.4-013		
MD Stretch (Warp)	Pass	SAE J855 (NT 8.2.4-058 Test №1) (55% - 80%)		
AMD Stretch (Fill)	Pass	SAE J855 (NT 8.2.4-058 Test №1) (25% - 50%)		
Antimicrobial Pink Strain Resistance	0 Grading	ASTM E1428-15 (No Stain)		
Resistance of Synthetic Polymeric Material to Fungi	0 Rating	ASTM G-21 (No Fungal Growth)		
Antifungal Activity Assessment on Textile Materials	Pass	AATCC 30, Test III (No Growth)		
Resistance to Growth of Mold on the Surface of Interior Coatings in an Environment Chamber	10 Rating	ASTM D3273-12 (No Defacement)		
Non-Phthalate **	<1000 ppm	CPSC-CH-C1001-09.3		
Colourfastness	4+ Grading	SAE J 2527 @ 1500 kJ		
Colourfastness	4+ Grading	AATCC 169 Option 3@ 2200 kJ		
Lightfastness/Colourfastness to Light	4+	AATCC 169 Option 3@2200kJ and SAE J 2527 @ 1500kJ		
Cracking	5 Grading	AATCC 8 (Wet and Dry)		
Abrasion Resistance – Wyzenbeek	200,000 Cycles	ASTM D4157-07 (CFFA-U-@01E 2012) Duck #10 (Heavy Duty)		
Abrasion – Martindale	0.3% After 100,000 Cycles	EN ISO 12947-3 – Textiles – Determination of the abrasion resistance of fabrics by the Martindale method – Part 3: Determination of mass loss (ISO 12947-3: 1998) – Test Series D		
Tear Strength MD	8.16+ Kgs	ASTM D 2261		
Tear Strength CD	4.54+ Kgs	ASTM D 2261		
Volatility	Complies (Actual = 1.0%)	ASTM D1203-03 (CFFA 18) (<8% Weight Loss)		
Cold Crack	Pass	Federal Test Standard 191A 5874 (CFFA 6 2007) @ -20F		
W-Flex	25,000 Cycles	FLTM BN 102-02 N or ASTM D2097-03 (CFFA 10) (No Cracking, Whitenings, Crazing or Separation of Coating from Backing)		
Heat Aging	<3.0 ΔE CMC Units	LP-463LB-13-01 7 days @85C		
No. 302 Burn Test	Pass	MVSS302		
California Technical Bulletin #117	Pass	TB117-2013 (Meets Class 1 Requirements)		
IMO	Pass	2010 FTP Code – International Code for Application of Fire Test Procedures – Resolution		



		MSC.307(88): Annex I – Fire Test Procedures Part 8 – Test for Upholstered Furniture: Cigarette and	
		Small Flame Ignition	
British Standard 5852	Pass	2006 – Methods of Test for Assessment of the Ignitability of Upholstered Seating by Smouldering Cigarette and Flaming Ignition Sources	
UFAC	I Class	UFAC Fabric Classification Test Method 1990 Cigarette Ignition Resistance of Fabric Intended for Use in Upholstered Furniture	
Australian/New Zealand Standard	Ignitability Index: 16 (Range 0-20) Spread of Flame Index: 0 (Range 0-10) Heat Evolved Index: 1 (Range 0-10) Smoke Developed Index: 5 (Range 0-10)	AS/NZS 1530.3-1999 Methods for Fire Tests on Building Materials, Components and Structures Part 3: Simultaneous Determination of Ignitability, Flame Propagation, Heat Release and Smoke Release	
ASTM E84	B Class	ASTM E84-19b Surface Burning Characteristics of Building Materials	
CFFA11	No Evidence of Whitening, Crazing or Separation of Coating from Backing after 25,000 Cycles	ASTM D 2097-03 Standard Method of Flex Testing of Finish on Upholstery Leather after ASTM D 1239-07 Standard Test Method for Resistance of Plastic Films to Extraction by Chemicals CFFA 11 – After 14 days of Hydrolytic Stability Exposure at 85°C	
Scuffing	No Evidence of lifting, peeling or excessive scuffing after 200 cycles	SAE J365 MAY2012 Method of Testing Resistance to Scuffing of Trim Materials	
Conditions to Avoid	Avoid use of steam	Steam should not be used on Horizon during fabrication to remove wrinkles and creases or during use. Dry heat can be used. Always test a patch in an inconspicuous place	
GREENGUARD	Pass	UL 2818 GREENGUARD Standard for Building Materials, Finishes and Furnishings. UL 2821 GREENGUARD Test Method for Building Materials, Finishes and Furnishings. California Section 01350	
Prop-65	No Labeling Required		
REACH	Compliancy	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)	

** Phthalates tested

- Di-n-butylphthalate (DnBP) (CAS No. 84-74-2)
- Benzyl butyl phthalate (BBP) (CAS No. 85-68-7)
- Di-n-hexyl phthalate (DnHP) (CAS No. 84-75-3)
- DI-n-octyl phthalate (DnOP) (CAS No. 117-84-0)
- Diisononyl phthalate (DINP) (CAS Nos. 28553-12-0, 68515-48-0)
- Diisodecyl phthalate (DIDP) (CAS Nos. 26761-40-0, 68515-49-1)
- DI (2-ethylhexyl)phthalate (DEHP) (CAS No. 117-81-7)



UV Exposure: Sunbrella Horizon is manufactured with highly UV-Stable pigments, making them resistant to fading and the

degrading effects of sunlight.

Storage: Store rolled in a clean dust and moisture free environment.

Characteristics: Sunbrella Horizon is designed to be effortlessly cleaned, stain resistant, waterproof, fade and UV resistant.

Engineered to withstand the damaging effects of sun, rain, snow and humidity. Its four-way stretch and recovery properties prevent misshaping and puddling, while its exceptional softness ensures long lasting comfort and performance. Suitable for interior and exterior applications. Available in 36 colours and 2

embossed patterns. Sunbrella Horizon's proprietary top coat ensures exceptional bacterial stain-resistant performance and protection against pink stains while being mold and mildew resistant. Resists cold cracking

and brittleness in temperatures as low as -7°C.

Cleaning: Most messes can be cleaned with a clean, dry towel. Do not use abrasive cloths or cleaners to avoid surface

damage. For regular cleaning and maintenance please consult the cleaning guide available from

www.bluskyproducts.com.au.

Fabrication Tips:

APPLICATION	NEEDLE TYPE	THREAD SIZE (TEX)	NEEDLE SIZE	THREAD TYPE	STITCHES/INCH (SPI)
Marine/Outdoor	ROUND	70	20	Solution-Dyed Polyester	6 -7
Marine /Outdoor	ROUND	90	20 - 22	Solution-Dyed Polyester	6 - 7
Marine/Outdoor	ROUND	90	16 - 20	PTFE	6
Furniture	ROUND	40-70	16 - 20	Nylon	6 - 8

^{*}Note: These are recommendations only. Needle size will vary depending on machine used and the sewer

- Use solution-dyed polyester or PTFE thread.
- If needed, use a polyurethane-based adhesive.
- Diagonal stitching is recommended, without going over the needlework.
- Pattern and seam allowances should be considered.
- Seam tape is recommended.
- Polyurethane Foam: If used, foam should be new and treated to inhibit fungal growth to pass ASTM G-21
- (CFFA 120), ASTM E1428 and AATCC 147 (CFFA -300) standards.
- Plywood: If used, plywood should be treated to be mildew and rot resistant.
- To prevent moisture build-up, keep product and substructure ventilated.
- We DO NOT recommend using steam on Sunbrella Horizon to remove wrinkles and creases. Dry heat can be used.

Always test a patch in an inconspicuous place.

Warranty: 5 Years Loss of strength or colour due to normal usage and exposure, and resistance to

mildew and atmospheric chemicals.

3 Years Pink bacterial staining.

3 Years Replacement costs to pay for the re-upholstery and/or trim up to \$60 per Lm of

product.

Additional Warranty information can be downloaded from www.bluskyproducts.com.au.