



## **HIRAOKA-104T**

### **FABRIC FOR LIGHT STRUCTURES**

Hiraoka 104T is an outstanding fabric offering many in-built technical features that other fabrics simply don't have. This means the Hiraoka 104T range will maintain its attractive appearance for many years, even in the harshest environments.



**HIRAOKA & CO., LTD.**

# LIGHT STRUCTURE FABRICS 104T



**WHITE**

W9056



**BLOCKOUT (104B)**

W9091



**CREAM**

W9078



**PUTTY**

W9077



**SAND**

B5542



**GREY N3011**

N3011



**LEMON**

O1048



**YELLOW**

O1047



**RED**

R7800



**BURGUNDY**

R7821



**TERRACOTTA**

B5541



**FOREST GREEN**

G2295



**REFLEX BLUE**

L4216



**BLACK**

K6170

## APPLICATIONS

Hiraoka 104T is designed for use on a range of light structures such as modular tents, pavilions, exhibition structures, umbrellas and small tension structures.

## TECHNICAL FEATURES

1. **Excellent dirt resistance and easy clean** Standard PVDF layers generate an electrical charge that attracts dirt. Our new PVDF-II has a special Fluorine layer on top of the PVDF layer to prevent dirt adhesion caused by the electrostatic attraction. PVDF-II not only resists dirt and weathering, but due to the super smooth fabric surface it is easy to clean with a simple wipe on the surface.
2. **Super Smooth Surface** The special coating technique employed by Hiraoka gives a Super Smooth fabric surface which eliminates the opportunity for ingrained dirt to spoil the fabric's appearance. It also provides a very uniform coating thickness that protects the high tensile base cloth.
3. **Anti-Wick Treatment** Hiraoka 104T has a special anti-wick treatment to prevent capillary action from drawing in unwanted moisture and associated stains in the base cloth. This is particularly important for fabric structures where back lighting by the sun can highlight any ugly stains.
4. **Colour Stability** When you choose one of the eye-catching colours from the 104T range you can be confident that it will maintain its attractive hue for many years. Hiraoka's advanced pigment technology provides unsurpassed colour stability allowing these fabrics to show their true colours.
5. **U.V. Resistance** Hiraoka has been supplying coated fabrics to the world's harshest environments for nearly 30 years. The UV stability and resistance to aging of these fabrics is second to none.
6. **Fabric Decoration** Many modular structures incorporate company logos, advertising, etc. In most cases this decoration is applied using adhesive vinyl lettering. 104T has excellent graphic adhesion. The adhesive vinyl does not shrivel or craze like it does on some other fabrics.
7. **Flame Resistance** Hiraoka 104T incorporates suitable fire retardant additives that provide added safety. 104T meets a range of international fire standards.
8. **Ease of fabrication** The unique coating formulation allows excellent fabric seaming using all standard techniques of fabric welding (RF, hot wedge, hot air). Stable flat welds without puckering are readily achieved.
9. **Opaque Option** Hiraoka 104B is also available. This fabric has a white surface, but blocks light transmission for those applications where you need to reduce glare or control the lighting conditions.
10. **Warranty** The technical excellence of the Hiraoka 104T and 104B is backed by a 10 year warranty for usage in normal conditions (for details refer to the separate warranty statement).



## TECHNICAL SPECIFICATION 104T

Yarn	1100 Detex PET		
Coating	PVC		
Top Surface Treatment	Weldable PVDF		
Bottom Surface Treatment	Acrylic		
Fabric Width	2.04 m	80.3 inches	
Length / Roll	50 m	55 yards	
Weight	635 g / m <sup>2</sup>	18.4 oz / yd <sup>2</sup>	ASTM D751
Thickness	0.5 mm	20 mil	ASTM D751
Tensile Strength (W/F)	248/225 daN/5cm	283/257 lbs/inch	ASTM D751
Breaking Elongation (W/F)	20 / 20%		ASTM D751
Tear Strength (W/F)	20 / 20 daN	45 / 45 lbs	DIN 53363
Adhesion (W/F)	11 / 11 daN/5cm	13 lbs/inch	ASTM D751
Tensile Stiffness (W/F)	38015/33915 daN/m	2172/1938 lbs/inch	MSAJ/M02-1995
Poisson's Ratio (W/F)	0.1112 / 0.0992		MSAJ/M02-1995
Temperature Range	-30 ~ +70 °C	-22 ~ +158 °F	ASTM D751
Anti - wicking	Treated		
Fungus Resistance	Treated		
Fire Retardant	NFPA-701, ASTM-E84, CSFM, AS1530.2 & 3 results available.		
Warranty	10 years		

## LIGHT TRANSMISSION (TEST METHOD JIS Z8722)

Colour	Code	%	Colour	Code	%
White	W 9056	10.22	Yellow	O 1047	13.5
Cream	W 9078	10.58	Red	R 7800	2.62
Putty	W 9077	2.27	Burgundy	R 7821	0.58
Sand	B 5542	0.72	Terracotta	B 5541	0.15
Grey	N 3011	3.28	Forest Green	G 2295	0.05
Lemon	O 1048	10.31	Reflex Blue	L 4216	0.28

The above results are typical averages from quality assurance testing. Slight variations in shade can occur from one production batch to the next. It is recommended that material from the same production batch be used on any one project.



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