

VALIDATED PERFORMANCE

PalletQuilt® thermal technology performed better than 25 other leading thermal covers in a material study completed by the largest independent perishable freight forwarder in the market.

Take a look inside to see our own technical research comparing PalletQuilt vs. the "White Cover" and layered bubble foil in a 6 hour test on the tarmac. >

PalletQuilt[®]

15-25°C Performance Comparison PalletQuilt[®], the White Cover, and Bubble Foil

Q-TECHNICAL SERVICES TESTING PROGRAM

We specialize in design, operation, and performance validation initiatives that can properly inform and educate on the implementation of passive thermal protection systems to the supply chain as applied to specific cold chain risk profiles.

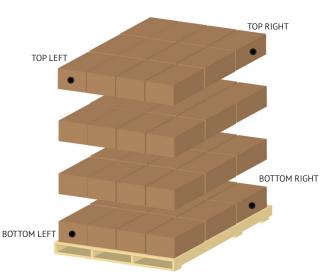
TEST METHOD

- Pallet Size: Four layers of cardboard boxes. Payload of 40 x 48 x 48.
- Test Mass: Plastic jugs containing water and a product mass to volume ratio of 23.1%.
- Product Conditioning: 20°C (± 1)
- Test Rational: Temperature probes, measuring at 5 minute intervals, were placed prior to conditioning and used throughout the test. To measure the worst case locations, probe placement on the surface of the boxes located on the outer corners of the pallet.

REQUIREMENTS

- Direct sun test for a minimum of 4 hours.
- Minimum ambient temperature of 35°C
- Cold test in a chamber set to -10°C

TEMP RECORDER PLACEMENT



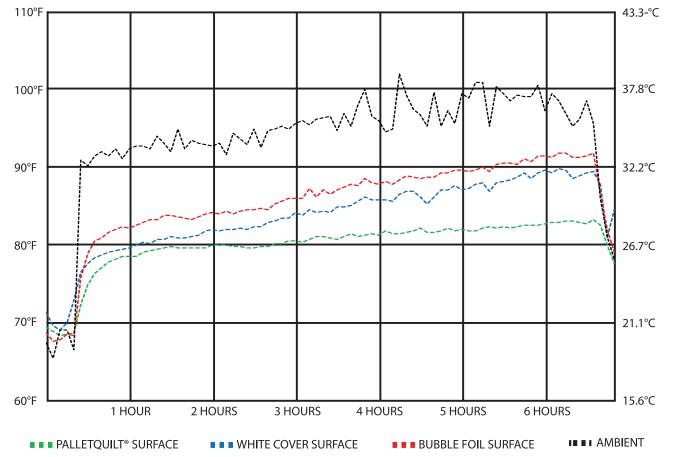






PalletQuilt[®] by QProducts and Services[®] Tel: 708-331-0094 Email: sales@qsales.com "When You Buy a Q Product, You Buy a Company"

SUNLIGHT TEST PERFORMANCE



MAXIMUM SURFACE TEMPERATURE ANALYSIS

		HOUR 1	HOUR 2	HOUR 3	HOUR 4	HOUR 5	HOUR 6
	PALLETQUILT®	25.4	26.5	26.7	27.4	27.8	28
	WHITE COVER	26.2	27.3	28.5	30	30.5	31.7
	degrees warmer n PALLETQUILT®	.8	.8	1.8	2.6	2.7	3.7
	BUBBLE FOIL	27.9	28.8	29.9	31.3	31.9	32.9
	degrees warmer n PALLETQUILT®	2.5	2.3	3.2	3.9	4.1	4.9



Commodity Profile 15-25°C



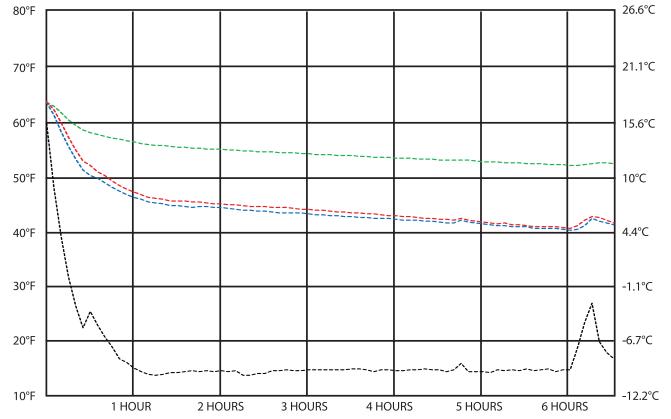


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COLD TEST PERFORMANCE



MAXIMUM SURFACE TEMPERATURE ANALYSIS

		HOUR 1	HOUR 2	HOUR 3	HOUR 4	HOUR 5	HOUR 6
thar	PALLETQUILT®	15.9	14.8	14.3	13.8	13.5	13
	WHITE COVER	10.1	8.3	7.7	7.1	6.6	6
	degrees cooler n PALLETQUILT®	5.8	6.5	6.6	6.7	6.9	7
	BUBBLE FOIL	10.3	8.7	8.1	7.4	6.8	6.1
tha	degrees cooler n PALLETQUILT®	5.6	6.1	6.2	6.4	6.7	6.9

Risk Low



Commodity Profile 15-25°C Allowable Excursions 2-30°C



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