

**Test Report**

Number: TWNT01330333

Tests Conducted (As Requested By The Applicant)

1 Thermal Transmittance Of Batting Systems Using A Hot Plate (ASTM D1518-2014, Option 2):

clo 0.290

2 Liquid Moisture Management Properties As Received (AATCC 195-2012, Moisture Management Tester):

	Top	Bottom	Top	Bottom	Top Max	Bottom Max	Top	Bottom	Accumulative One-Way Transport Index (%)	OMMC
	Wetting Time (sec)	Wetting Time (sec)	Absorption Rate (%/sec)	Absorption Rate (%/sec)	Wetted Radius (mm)	Wetted Radius (mm)	Spreading Speed (mm/sec)	Spreading Speed (mm/sec)		
No. 1	11.156	10.406	65.5271	93.8796	5	15	0.4408	1.1178	466.1752	0.7428
No. 2	9.844	9.75	55.4671	94.6995	10	15	0.5979	1.1222	484.8112	0.7455
No. 3	11.531	7.406	78.1094	85.2465	10	15	0.9411	1.4077	451.6077	0.743
No. 4	11.438	8.719	60.5363	72.3227	5	15	0.4301	1.0995	467.0794	0.6814
No. 5	12.375	7.313	57.8507	77.3991	10	15	0.8247	1.2761	417.9721	0.7102
Average	11.2688	8.7188	63.4981	84.7095	8	15	0.6469	1.2047	457.5291	0.7246
Std dev	0.917	1.3793	8.9829	9.8876	2.7386	0	0.2292	0.1339	25.0504	0.0282

Grade	Top	Bottom	Top	Bottom	Top Max	Bottom Max	Top	Bottom	Accumulative One-Way Transport Index (1-5)	OMMC (1-5)
	Wetting Time (1-5)	Wetting Time (1-5)	Absorption Rate (1-5)	Absorption Rate (1-5)	Wetted Radius (1-5)	Wetted Radius (1-5)	Spreading Speed (1-5)	Spreading Speed (1-5)		
No. 1	3	3	4	4.5	1	3	1	1.5	5	4
No. 2	3	3	3.5	4.5	2	3	1	1.5	5	4
No. 3	3	3.5	4	4	2	3	1	2	5	4
No. 4	3	3.5	3.5	4	1	3	1	1.5	5	4
No. 5	3	3.5	3.5	4	2	3	1	2	5	4
Median	3	3.5	3.5	4	2	3	1	1.5	5	4

Classification of Fabric (With Reference to MMT operation manual):

**Moisture management fabric**

- Medium to fast wetting
- Medium to fast absorption
- Large spread area at bottom surface
- Fast spreading at bottom surface
- Good to excellent one-way transport

