

TEST REPORT

CLIENT	SuZhou Tuntex Fiber & Carpet Company
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	ASTM E648 Standard Test Method for Critical Radiant Flux of Floor			
TEST METHOD CONDUCTED	Covering Systems Using A Radiant Heat Energy Source, also referenced			
	as NFPA 253 and FTM Standard 372			



DESCRIPTION OF TEST SAMPLE	
IDENTIFICATION	Nexlon Carpet Tile
CONSTRUCTION	Multi-Level Loop Pile
BACKING	Duraback

GENERAL PRINCIPLE

This procedure is designed to measure the critical radiant flux at flame out of horizontally mounted floor covering systems exposed to a flaming ignition in a test chamber which provides a graded radiant heat energy environment. The imposed radiant flux simulates the thermal radiation levels likely to impinge on the floors of a building whose upper surfaces are heated by flames from a fully developed fire in an adjacent room or compartment. The test result is an average critical radiant flux (watts/square cm) which indicates the level of radiant heat energy required to sustain flame propagation in the flooring system once it has been ignited. A minimum of three test specimens are tested and the results are averaged. Theoretically, if a room fire does not impose a radiant flux that exceeds this critical level on a corridor floor covering system, flame spread will not occur.

The NFPA Life Safety Code 101 specifies as Class 1 Critical Radiant Flux of .45 watts/sq cm or higher and Class 2 Critical Radiant Flux as .22 - .44 watts/sq cm.

Class Z Chinear Radiarit Flox as :ZZ : 11 Walts/sq Chi.					
FLOORING SYSTEM ASSEMBLY					
SUBSTRATE	Mineral-Fiber/Cement Board	UNDERLAYMENT	Direct Glue Down		
ADHESIVE	Acrylic	CONDITIONING	Minimum of 96 hours at 70 $\pm 5^{\circ}$ F and 50 \pm 5%		
			relative humidity		

	Distance Burned	Time To Flame Out	Critical Radiant Flux
Specimen 1	28 cm	11 minutes	0.71 watts/square cm
Specimen 2	26 cm	10 minutes	0.77 watts/square cm
Specimen 3	25 cm	10 minutes	0.79 watts/square cm

Average Critical Radiant Flux	0.76 Watts/Square Cm
Standard Deviation	0.03 Watts/Square Cm
Coefficient of Variation	4.49 %

NOTE: Meets or exceeds Class 1 rating as specified in NFPA Life Safety Code 101.

Dary asbury

APPROVED BY:

TESTING NOVAPIAB CODE 100297-0

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