



## TEST REPORT

DATE: 11/29/2012

TEST NUMBER: 152938

|        |                 |
|--------|-----------------|
| CLIENT | Masland Carpets |
|--------|-----------------|

|                       |  |
|-----------------------|--|
| TEST METHOD CONDUCTED | ASTM E648-10 Standard Test Method for Critical Radiant Flux of Floor Covering Systems Using A Radiant Heat Energy Source, also referenced as NFPA 253 and FTM Standard 372 |
|-----------------------|--|

| DESCRIPTION OF TEST SAMPLE |                       |
|----------------------------|-----------------------|
| IDENTIFICATION             | T2UGT Resonate TPR    |
| COLOR                      | 69395                 |
| CONSTRUCTION               | Multi-Level Loop Pile |
| BACKING                    | Thermoplastic         |
| REFERENCE                  | Dyelot: 909927        |

**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.

| FLOORING SYSTEM ASSEMBLY |                            |              |  |
|--------------------------|----------------------------|--------------|--|
| SUBSTRATE                | Mineral-Fiber/Cement Board | UNDERLAYMENT | Direct Glue Down   |
| ADHESIVE                 | Advanced Adhesive 272      | CONDITIONING | Minimum of 96 hours at 70 ± 5° F and 50 ± 5% relative humidity |

|            | Distance Burned | Time To Flame Out | Critical Radiant Flux |
|------------|-----------------|-------------------|-----------------------|
| Specimen 1 | 33 cm           | 14 minutes        | 0.63 watts/square cm  |
| Specimen 2 | 36 cm           | 19 minutes        | 0.57 watts/square cm  |
| Specimen 3 | 34 cm           | 17 minutes        | 0.61 watts/square cm  |

|                               |                      |
|-------------------------------|----------------------|
| Average Critical Radiant Flux | 0.60 Watts/Square Cm |
| Standard Deviation            | 0.02 Watts/Square Cm |
| Coefficient of Variation      | 4.13 %               |

\* NOTE: Meets or exceeds Class 1 rating as specified in NFPA Life Safety Code 101 and IBC 804.2 Classification.

APPROVED BY:

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