

Fire Dynamics and Materials Laboratory (FML)

PRODUCTS

- Evaluation and improvement of material fire performance for flammability, toxicity, fire resistance and fire suppression.
- Identification and improvement of fire retardant properties.
- Accurate fire hazard quantification for buildings, transportation and industry based on material fire data.

TOOLS

- Fire testing at the new FireSERT facilities including advanced flammability and TGA apparatus, intermediate scale (ISO room and SBI tests) and large scale testing (10 MW calorimeter and Resistance Furnaces)
- Computational Fluid Dynamics and Physical Models to interpret test results for material and product improvement and fire hazard quantification

CUSTOMER BENEFITS

- Comply with local and international standards for materials and products or demonstrate required performance.
- Improve fire performance of materials and products by using appropriate fire retardant additives.
- Provide accurate fire hazard quantification for fire safety design, fire suppression and fire risk assessment.

TRACK RECORD

- Timber flammability
- Glazing performance in fires
- Flooring material performance
- Fire retardant evaluation
- Fire fighters protective clothing
- Fire Investigation
- Fire doors
- Lightweight drywall partitions
- Fire resistance of building products
- Polymer nanocomposites



THE CONE (horizontal / vertical)



A REAL FIRE

CONTACT DETAILS

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