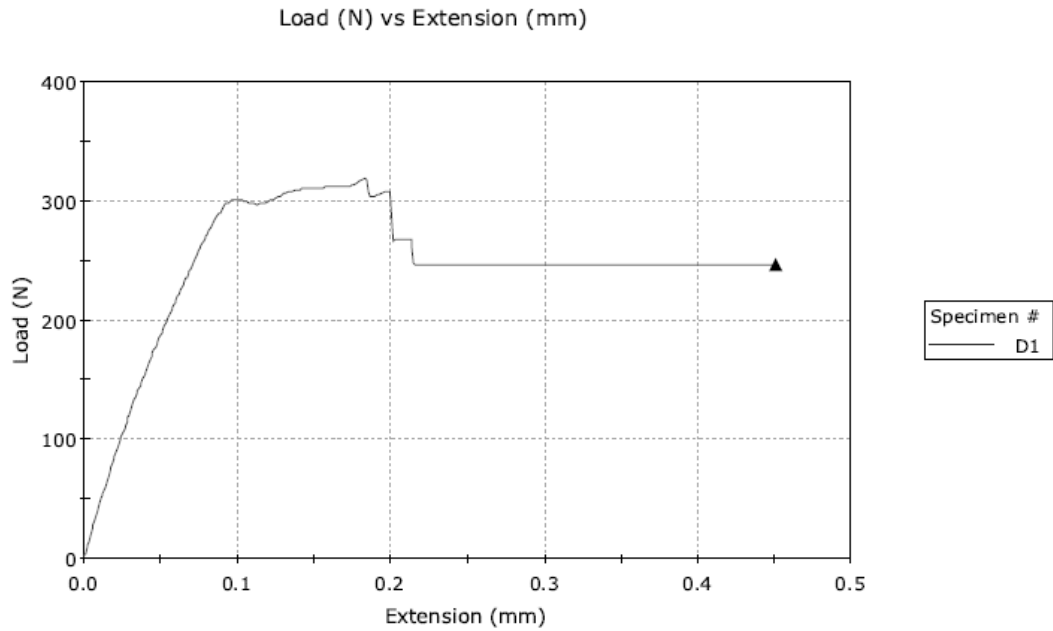


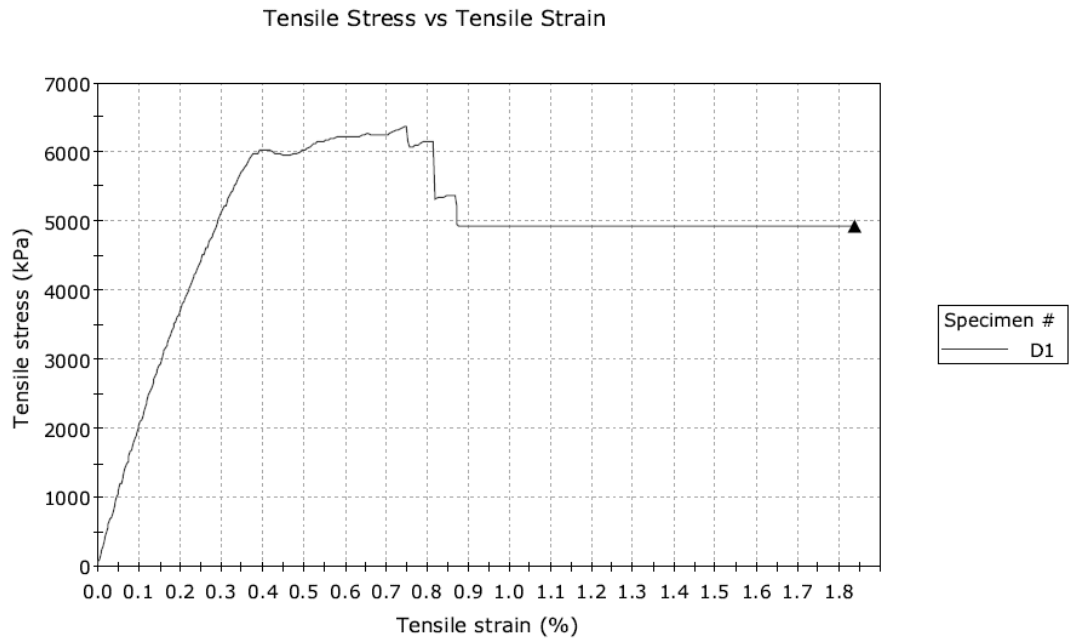
# APPENDICES

Sample D1: Bonding strength test

Load vs Extension



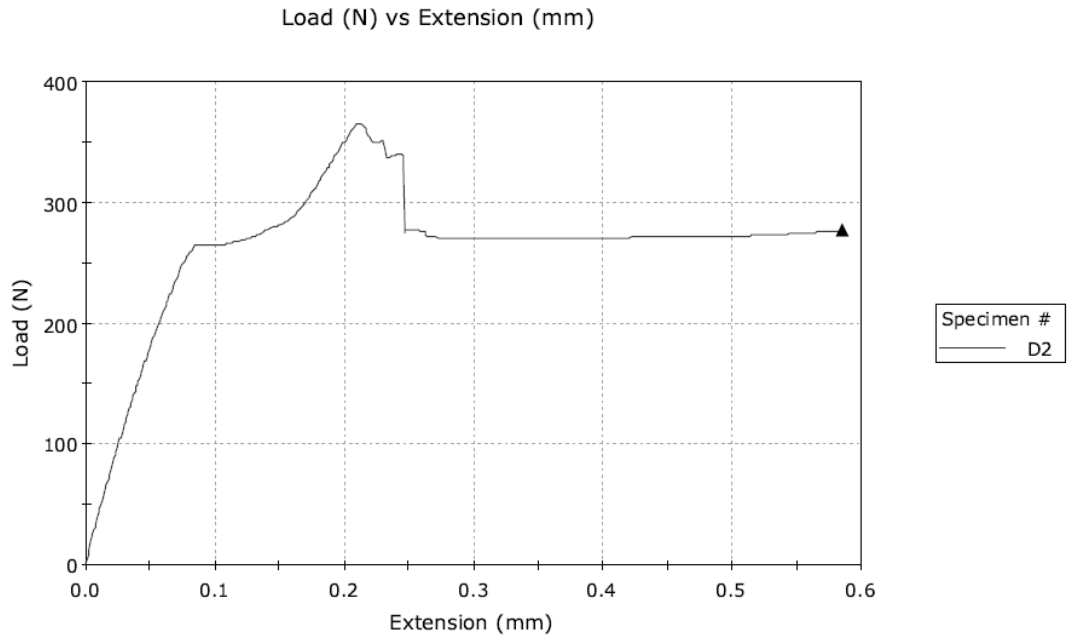
Tensile Stress vs Tensile Strain



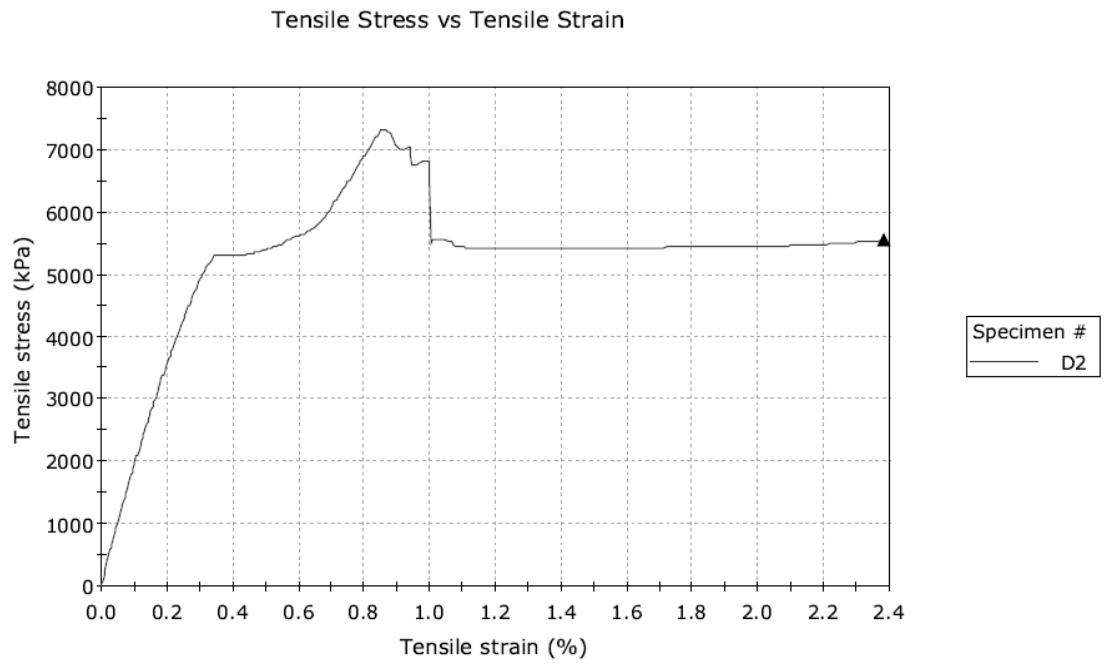
Maximum Load (N)	Extension at Maximum Load (mm)	Tensile strain at Maximum Load (%)	Tensile stress at Maximum Load (kPa)
318.68052	0.18330	0.75	6373.610

Sample D2: Bonding strength test

Load vs Extension



Tensile Stress vs Tensile Strain

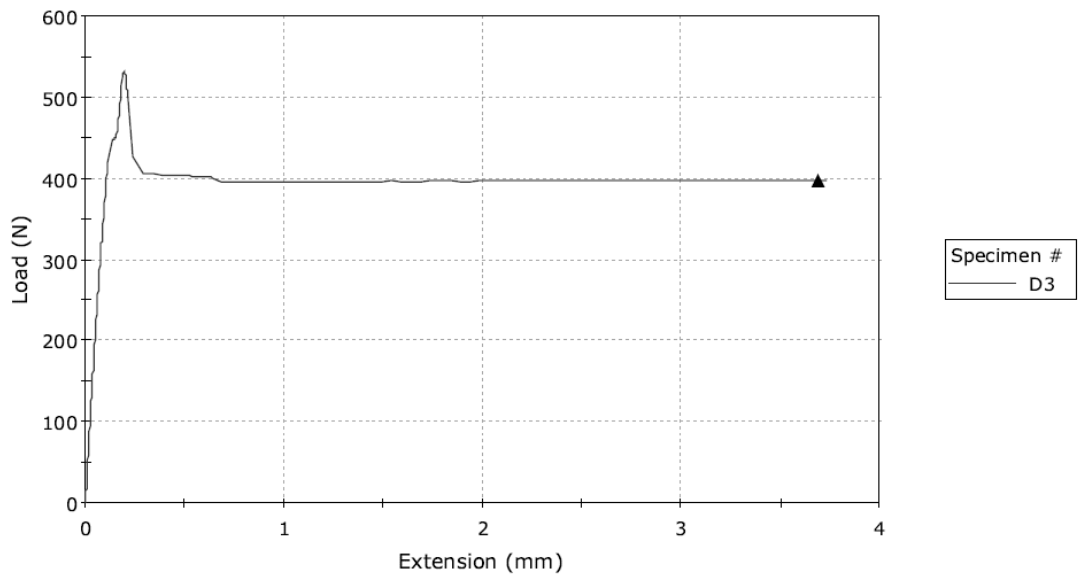


Maximum Load (N)	Extension at Maximum Load (mm)	Tensile strain at Maximum Load (%)	Tensile stress at Maximum Load (kPa)
365.72450	0.21300	0.87	7314.490

Sample D3: Bonding strength test

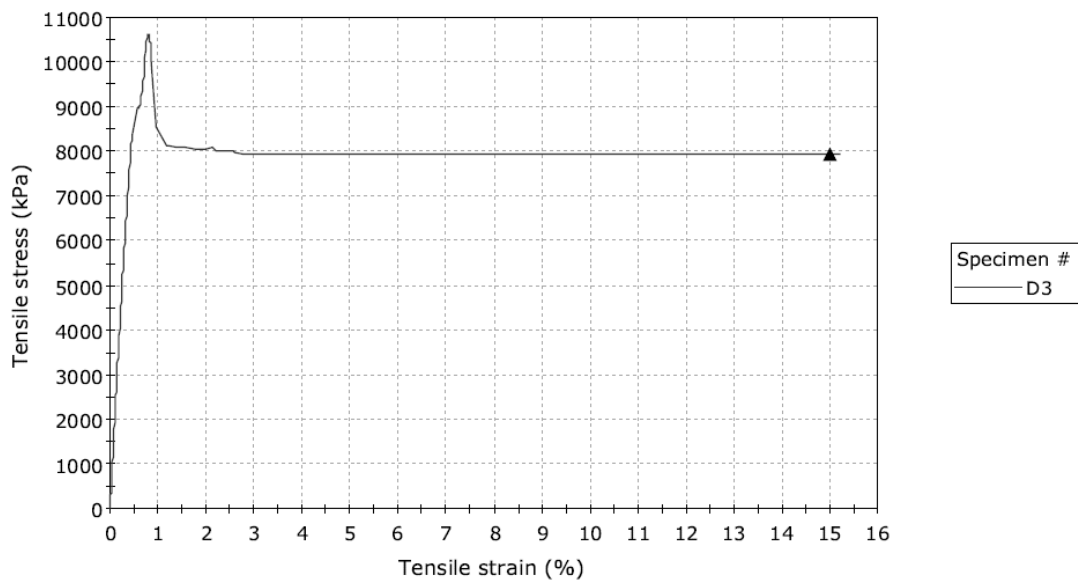
Load vs Extension

Load (N) vs Extension (mm)



Tensile Stress vs Tensile Strain

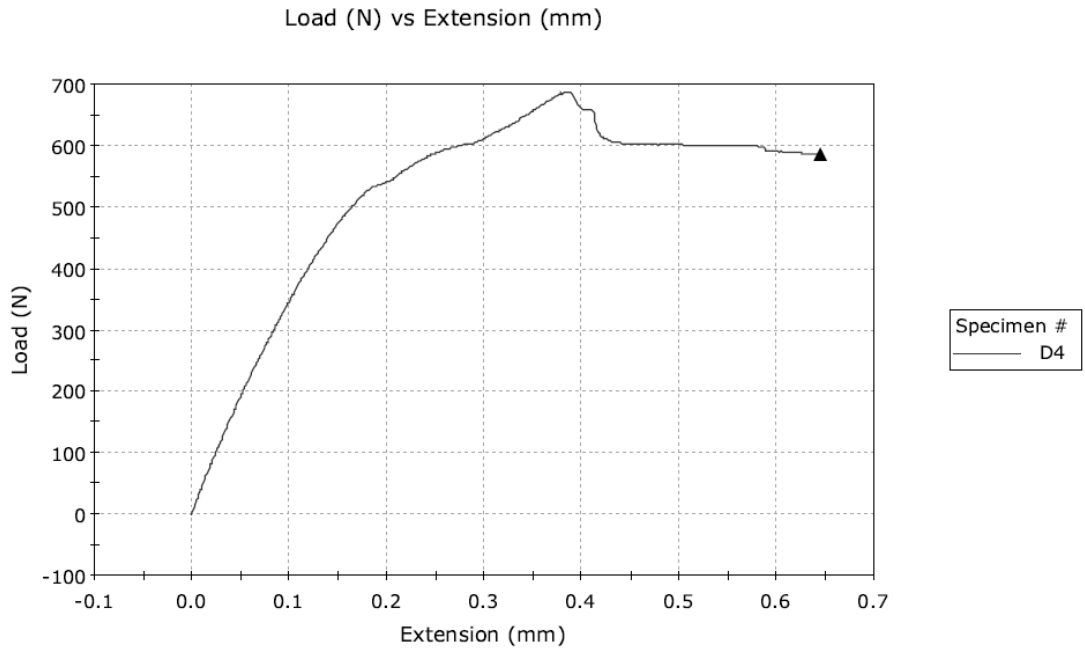
Tensile Stress vs Tensile Strain



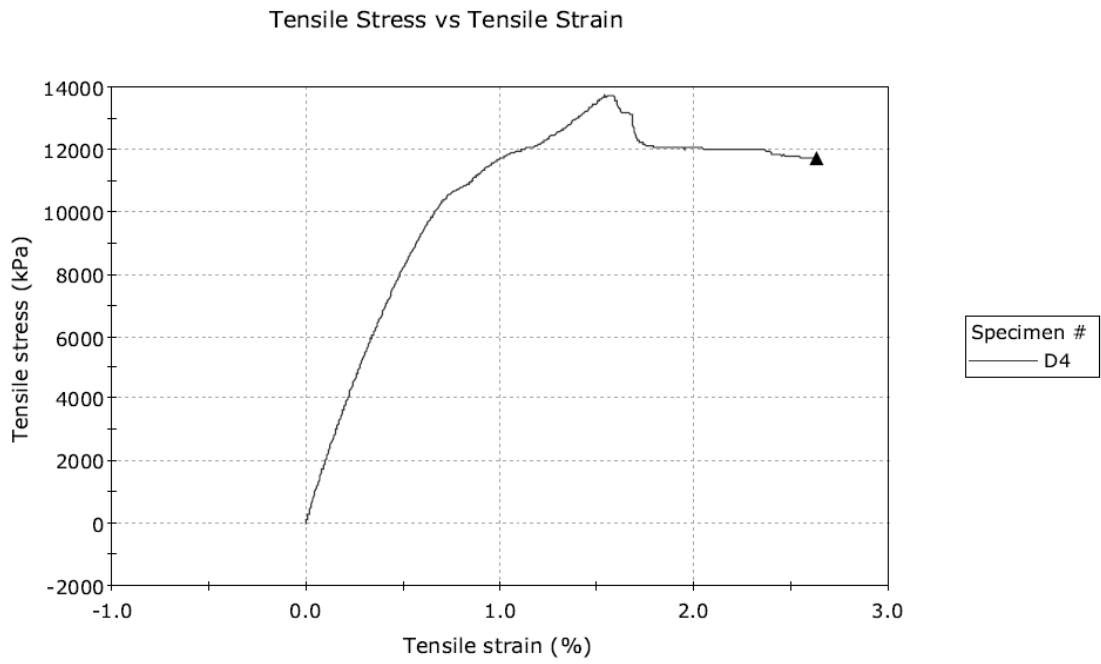
Maximum Load (N)	Extension at Maximum Load (mm)	Tensile strain at Maximum Load (%)	Tensile stress at Maximum Load (kPa)
531.05795	0.19718	0.80	10621.159

Sample D4: Bonding strength test

Load vs Extension



Tensile Stress vs Tensile Strain



Maximum Load (N)	Extension at Maximum Load (mm)	Tensile strain at Maximum Load (%)	Tensile stress at Maximum Load (kPa)
686.53721	0.38787	1.58	13730.744

### **Academic Journals**

Yew, M. C., & Ramli Sulong, N. H. Fire-Resistive Performance of Intumescent Flame-Retardant Coatings for Steel, published in *Materials and Design*, 2011. [doi:10.1016/j.matdes.2011.05.032](https://doi.org/10.1016/j.matdes.2011.05.032) (*ISI-Cited Publication*)

Yew, M. C., & Ramli Sulong, N. H. Effect of Epoxy Binder on Fire Protection and Bonding Strength of Intumescent Fire Protective Coating for steel, *Advanced Materials Research* Vols. 168-170 (2011) pp 1228-1232. [doi:10.4028/www.scientific.net/AMR.168-170.1228](https://doi.org/10.4028/www.scientific.net/AMR.168-170.1228) (*SCOPUS-Cited Publication*)

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Yew, M. C., & Ramli Sulong, N. H. (2010). Effect of Epoxy Binder on Fire Protection and Bonding Strength of Intumescent Fire Protective Coating for steel, *Proceedings of the International Conference on Structures and Building Materials (ICSBM 2010)*.

Yew, M. C., & Ramli Sulong, N. H. (2009). Investigation on Fire Protection of Intumescent Coatings for Steel, *Proceedings of the 1st International Seminar on Sustainable Infrastructure and Building Environment in Developing Countries (SIBE 2009)*, Bandung, Indonesia.

Yew, M. C., & Ramli Sulong, N. H. (2009). Characterization of an Intumescent Fire Protective Coating for Steel, *Proceedings of the International Conference for Technical Postgraduates (TECHPOS 2009)*, Kuala Lumpur, Malaysia.

### **AWARDS AND RECOGNITIONS**

N.H. Ramli Sulong, Yew Ming Chian, Yew Ming Kun, Yeo Shih Horng, *ECO Intumescent Fire resistive Coatings*, Gold Medal ITEX2011, 20-22 May 2011, KLCC., The Malaysian Invention and Design Society (MINDS), 2011

Yew Ming Chian, N.H. Ramli Sulong, *Innovative Intumescent Fire Protective Coatings for Wood, Steel and Concrete*, Bronze Medal MTE2011, 17-19 Feb 2011, KLCC., MTE 2011, 2011

Yew Ming Chian, N.H. Ramli Sulong, *Investigation on Intumescent Coating made with a New Bio-filler, CES as Fire Protective Materials for Steel*, Silver Medal ITEX 2010, 14-16 May 2010, KLCC., ITEX 2010, 2010

### **Patents Filed**

Title of Invention: Intumescent Fire Protective Coating (PI 2010700049).