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Behaviour of aeronautical polymer composite to flame: A comparative study of thermoset- and thermoplastic-based laminate

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2	thermoset- and thermoplastic-based laminate.
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19	Highlights
20	• A comparison between PPS and epoxy-based composite materials is proposed.
21	• Samples have been exposed to fire using a novel propane burner apparatus.
22 23	 The temperature and mass have been recorded using an IR camera and a precision balance respectively.
24 25	 Image analysis has been performed on micrographic images to quantify the macroscopic degradation.
26 27	• Two degradation scenarios are proposed for PPS and epoxy-based composites.
28	Keywords
29	Carbon fibre reinforced polymer, Fire testing, Thermoplastic, Thermosetting
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