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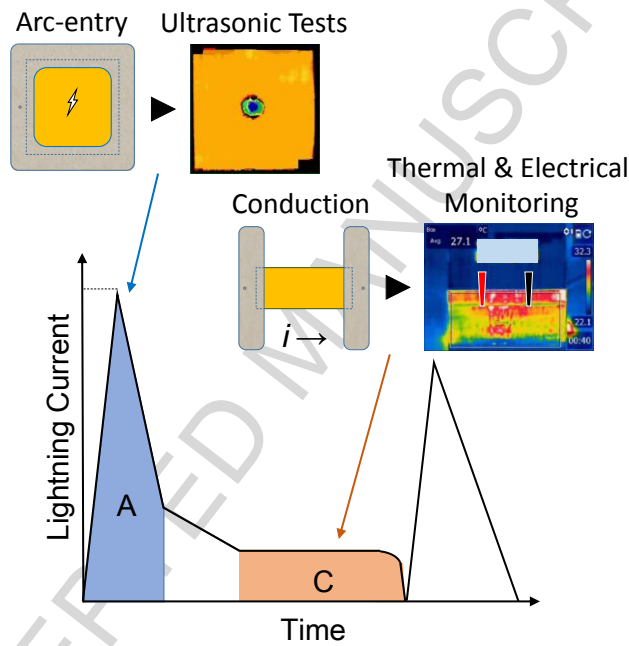
DAMAGE RESPONSE OF COMPOSITES COATED WITH CONDUCTING MATERIALS SUBJECTED TO EMULATED LIGHTNING STRIKES

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Graphical Abstract



Highlights

1. Eight different coating materials were subjected to emulated lightning tests to study the damage protection offered to polymer composite substrates
2. Lightning impulse currents of about 40 kA, and continuous currents of 200 A for 1 s were employed for testing
3. Metallic coatings performed better at lightning protection compared to hybrid coatings composed of different materials
4. There is lack of correlation between measured 4-probe electrical resistivity/resistance and the degree of protection offered against lightning

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