

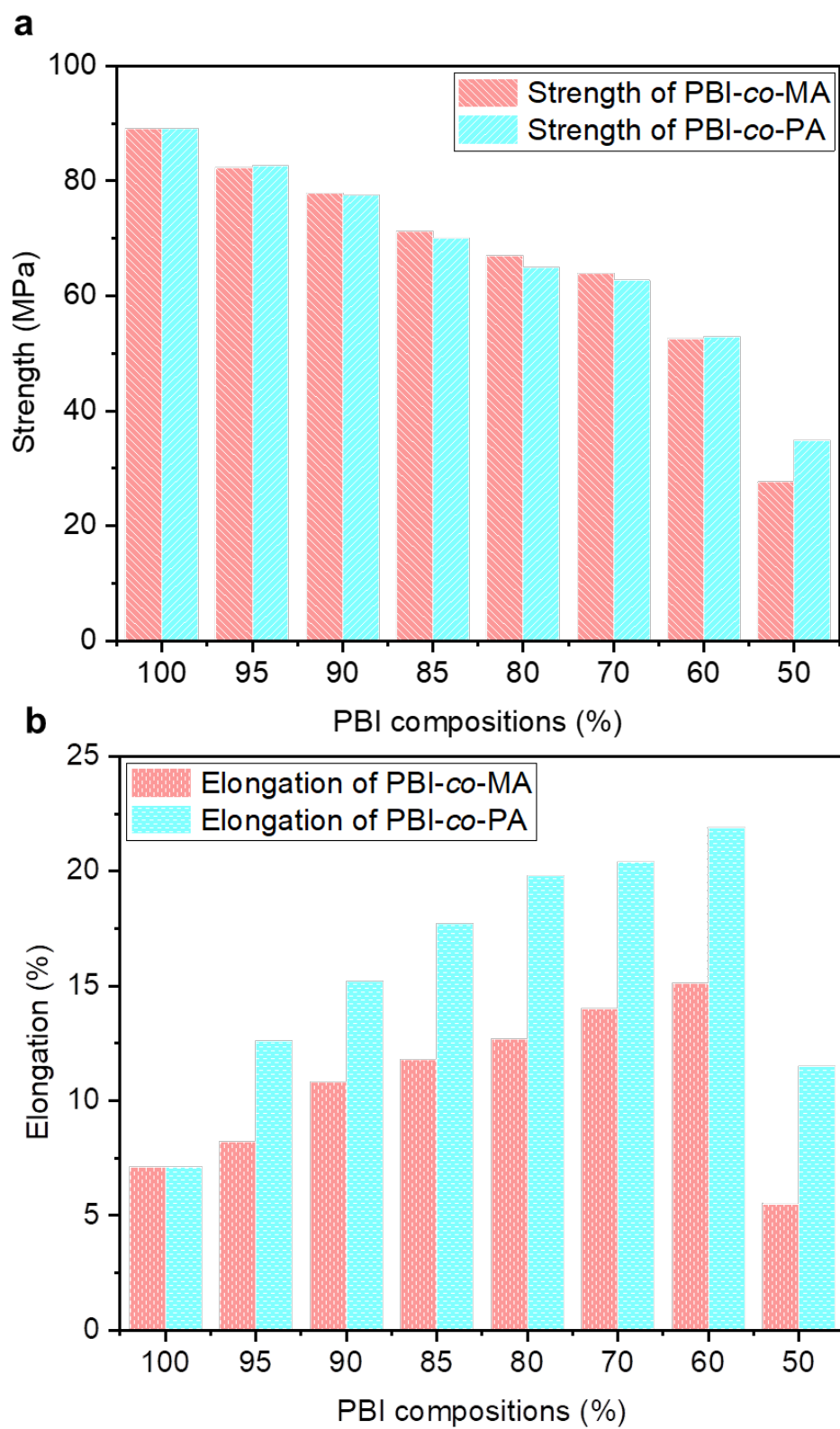
# Incorporation of Aramids into Polybenzimidazoles to Achieve Ultra-High Thermoresistance and Toughening Effects

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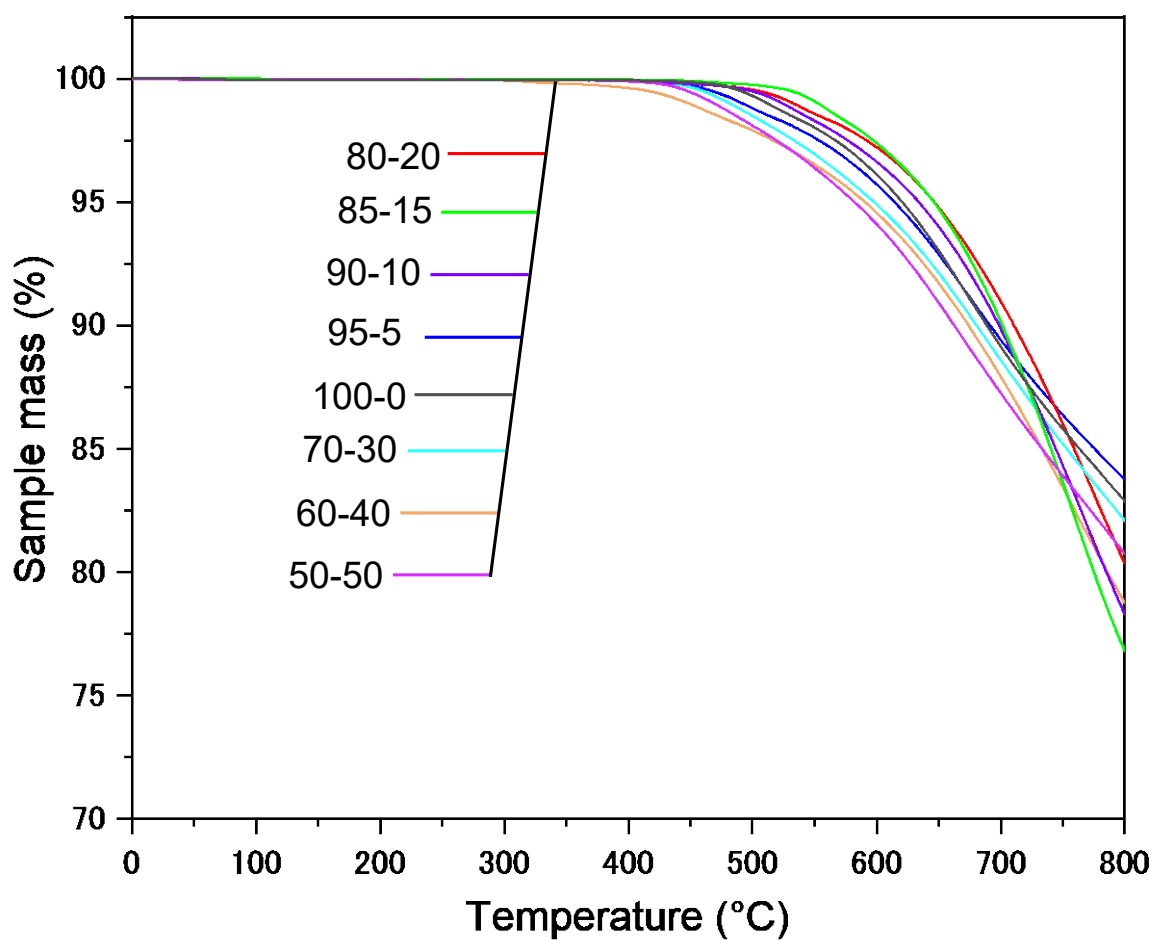
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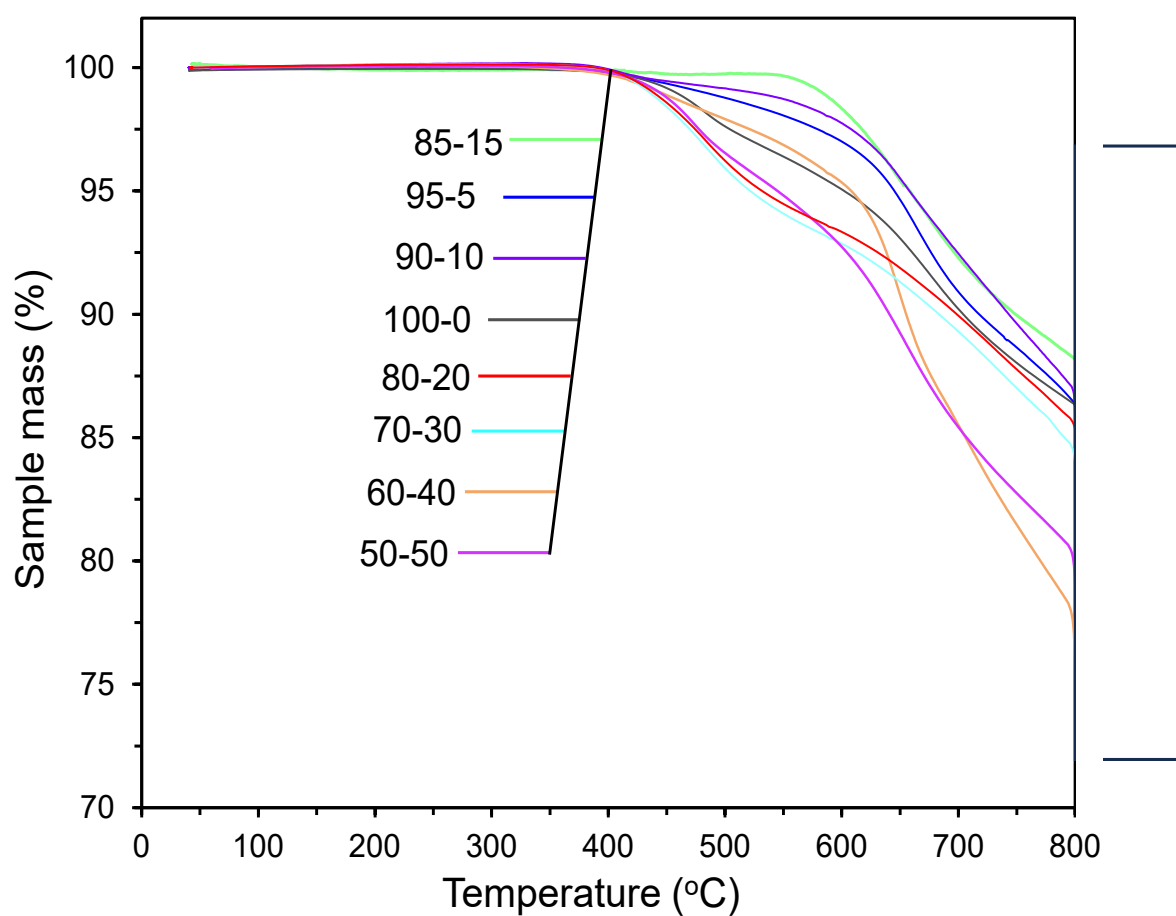
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**Figure S1.** Mechanical indexes of PBI-co-MA and PBI-co-PA. a: tensile strength; b: elongation at break.



**Figure S2.** TGA curves of PBI-*co*-MA in various compositions. The curves shows that the thermal degradation temperatures increase as the MA ratio increases to 20%, followed by a decreasing trend as continuing increasing the MA ratios.



**Figure S3.** TGA curves of PBI-*co*-PA in various compositions. Similar as the curves of PBI-*co*-MA, the thermal degradation temperatures increase as the PA ratio increases to 15%, and followed by a decreasing trend as continuing increasing the PA ratios.