THERMOGRAVIOMETRIC ANALYSIS OF ORGANOPLASTIC TYPE COMPOSITE MATERIAL

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Thermograviometric analysis of organoplastic type composite material was carried out by the metodic [1]. Experimental dependences of mass loss, mass before and after exposure, carbon residue mass, brightness temperatures of front and back surfaces, temperature of back surface, termodestruction depth, coefficient of heat flux attenuation by termodestruction products under impact of different intensities of heat fluxes. Material's coke number, quantity of chemical reactions in material under impact of intensive heat fluxes and their's onset temperatures, sublimated carbon residue mass, mass entraiment rate, material's blackness degree under impact of different intensities of heat fluxes were obtained by experimental data processing.

The obtained data can be used for mathematical models of КМ′ s decomposition under the influence of intense heat flows validation.

References

1. **Zaponov, A. E.** Method of composite material's thermograviometric analys [Text] // Zababahinskie science readings: Books of abstracts XVI International conference. – Snezhinsk : RFNC – VNIITF, 2023. – P. 158–159.