

### **THERMAL PROPERTIES OF TERNARY TELLURITE GLASS SYSTEM**

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### **ABSTRACT**

Ternary tellurite glass system of  $[(\text{TeO}_2)_{60}(\text{B}_2\text{O}_3)_{40}]_{1-y}[\text{Ag}_2\text{O}]_y$  glasses had been synthesized by melt quenching method. The thermal expansion coefficient of the glasses was determined between 30°C and 210°C. Experimental results indicate that the thermal expansion varies with micro structural of the glass system. Transition temperature and Debye temperature decrease with  $\text{Ag}_2\text{O}$  due to loose packing of the glass network.

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