

Besboroslov, M. S. and Vlazovkii, B. A.
INVESTIGATION OF THE SYSTEM $\text{Li}_2\text{O}-\text{Al}_2\text{O}_3-$
 $\text{B}_2\text{O}_3-\text{SiO}_2$ IN GLASSY STATE. 1 Sep 58 [17]p.
Order from OTS or SLA \$1.60 61-20693

Trans. of unidentified Russian mono. Minsk, 1957.

DESCRIPTORS: *Glass, Production, Materials,
Lithium compounds, Aluminum compounds, Boron
compounds, Silicon compounds, Dioxides, Thermal
expansion, Refractive Index, Oxides.

Areas of glass formation were determined in the sys-
tem $\text{Li}_2\text{O}-\text{B}_2\text{O}_3-\text{SiO}_2$. Glasses resistant to crystal-
lization were found with up to 47 mol-% of Li_2O . With
a smaller content of Li_2O it was possible to obtain
glass (only opalescent) with a coefficient of linear ex-
pansion of 25 to 30×10^{-7} . Li_2O reduces viscosity to
a greater extent than Na_2O or K_2O . Stable glasses
(Materials--Ceramics, TT, v. 7, no. 8) (over)

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