Reference

2008 Pertermann M., Whittington A.G., Hofmeister A.M., Spera F.J., and Zayak J. Thermal diffusivity of low-sanidine single-crystals, glasses and melts at high temperatures. *Contrib. Mineralogy and Petrology 155*, 689-702 DOI: 10.1007/s00410-007-0265-x

**See Glasses Database File in metadata folder for complete list of Glass samples/compositions and references.**

**Data collected at Washington University, St. Louis, MO**

**Supported by NSF: EAR-0207198**

Files

Table 1+2 – Chemical Compositions (in wt%) and Water content (in ppm) versus max temp (K) during LFA measurements

Table 4 – Thermal Diffusivity values

Figure 2 – Infrared Spectra – PRN Files

 Column 1: Frequency (cm-1)

 Column 2: Absorption Coefficient (mm-1)

|  |  |  |  |
| --- | --- | --- | --- |
| **IR Spectra File Name** | **Sample Thickness (mm)** | **Description** | **Sample ID** |
| ORAGL413 | 1.08 | apt with screen, fresh orthoclase glass, 2000 scans, res = 2 | W |
| ORGLR221 | 5.3 | apt + screen, fresh madagascar orthoclase glass remelt, 2435 scans, res = 4 | R |
| ORSG1220 | 1.747 | near, 1 screen, smaller apt, fresh spera glass #2, 2000 scans, res = 2 | S |

W glass diffusivity – Thermal diffusivity of orthoclase glass W @ 2nd and 3rd heating (Figure5/7)

Figure 6 – Thermal Diffusivity of three glasses

Raw Probe Data

|  |  |
| --- | --- |
| **Sample** | **Filename** |
| Un 4 Orthoclase glass | Orthoclase glass Probe |