

Technical Literature G-13

Data for CAE Analysis

Data for the analysis of the flowability of AURUM[®] PL450

1. Data on thermal conductivity and specific heat: Table 1
2. P-V-T data: Attached data, 2 sheets
3. Data on melt viscosity: Table 2
4. Flow stop temperature: 250°C
5. Poisson's ratio: 0.40

Table 1 Data on Thermal Conductivity and Specific Heat

Temperature, t, °C	Density, ρ , g/cm ³	Thermal diffusion, α , cm ² /s	Specific heat, Cp, cal/g°C	Thermal conductivity, λ , cal/cm ²
25			0.252	9.21×10^{-4}
200			0.241	8.94×10^{-4}
250			0.245	1.05×10^{-3}
300			0.356	1.08×10^{-3}
350			0.342	1.03×10^{-3}

Thermal conductivity, λ : Data for JCL3010

Table 2 Data on Melt Viscosity

Temperature, °C	Shear rate, 1/sec	Viscosity, Poise
400	198	6204
400	479	5121
400	1222	4010
400	2485	2959
420	170	4320
420	339	3614
420	777	3154
420	2085	2350
430	213	3456
430	980	2501
430	2852	1719
430	7500	980

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