

Technical Literature G-12

Data for CAE Analysis

Data for the analysis of the flowability of AURUM[®] JCN3030

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: 0.39

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	1.43	3.56×10^{-3}	0.232	1.18×10^{-3}
200	1.43	2.98×10^{-3}	0.341	1.45×10^{-3}
250	1.43	2.55×10^{-3}	0.399	1.45×10^{-3}
300	1.43	2.55×10^{-3}	0.417	1.52×10^{-3}
350	1.43	2.44×10^{-3}	0.462	1.61×10^{-3}

Table 2 Data on Melt Viscosity

Temperature, °C	Shear rate, 1/sec	Viscosity, Poise
400	71	41000
400	263	22000
400	551	17000
420	130	25000
420	519	12000
420	1326	7700
440	182	17000
440	649	8000
440	1805	5200
440	3766	3300

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