

Tuesday, November 23, 2021, Time 11:30

Wintherm32v3 Version 3.31.143 Uni

Instrument: F200s

Instrument Program Version 290

Instrument Serial Number: 2520

Sample Name: RE_OSa.50.50.0.L4#3

Thickness: 28.90mm

Rear Left : 28.98 mm

Rear Right : 29.01 mm

Front Left: 28.80 mm

Front Right: 28.80 mm

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Thickness obtained : from instrument

TEST RUN

Calibration used : User Type

Calibration File Id: IRMMCalibration_sn2520

Number of transducers per plate: 1

Number of transducers used per plate: 1

Number of Setpoints: 3

Setpoint duration: 76 min

Block Averages for setpoint 1 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	15.89	24.41	-8282	5600	0.6109
-ne-	14.96	24.99	-5463	3585	0.3385
-te-	15.00	25.00	-4817	3784	0.3228
-te-	15.00	25.01	-4627	3957	0.3219
-te-	15.00	25.01	-4490	4062	0.3208
-te-	15.00	25.01	-4403	4130	0.3200
-te-	15.01	25.02	-4345	4177	0.3196
-te-	15.00	25.01	-4309	4201	0.3191
-pe-	15.00	25.01	-4290	4219	0.3191
-pe-	15.00	25.01	-4270	4233	0.3189
-pe-	15.00	25.01	-4258	4242	0.3187
-pe-	15.00	25.01	-4250	4247	0.3186
-pe-	15.01	25.01	-4245	4249	0.3185
-pe-	15.01	25.02	-4244	4249	0.3185
-pe-	15.00	25.01	-4242	4249	0.3184
-pe-	15.01	25.02	-4240	4250	0.3184
-pe-	15.01	25.02	-4241	4250	0.3184
-pe-	15.01	25.01	-4240	4249	0.3183

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Setpoint No. 1

Setpoint Upper: 15.00 °C

Setpoint Lower: 25.00 °C

Temperature Upper: 15.01 °C

CalibFactor Upper: 0.026016

Results Upper: 0.3185 W/mK

Temperature Lower: 25.01 °C

CalibFactor Lower: 0.025934

Results Lower: 0.3182 W/mK

Percent Difference: 0.09%

Thermal Equilibrium Criteria:

Temperature Equilibrium: 0.20

Between Block HFM Equil.: 49

HFM Percent Change: 2.00

Min Number of Blocks: 4

Setpoint duration: 80 min

Block Averages for setpoint 2 in SI units

	Tupper	Tlower	Qupper	Qlower	Lambda
	[°C]	[°C]	[μV]	[μV]	[W/mK]
-ne-	10.34	20.19	-11882	-3088	0.5758
-ne-	9.87	19.84	-7688	1286	0.3416
-te-	9.99	19.97	-6308	2505	0.3344
-te-	10.00	20.00	-5592	3057	0.3273
-te-	10.00	20.00	-5100	3450	0.3233
-te-	10.00	20.00	-4777	3706	0.3207
-te-	10.00	20.00	-4565	3883	0.3193
-te-	10.00	20.00	-4436	3985	0.3182
-te-	10.00	20.00	-4347	4057	0.3175
-te-	10.00	20.00	-4288	4103	0.3170
-te-	10.00	20.00	-4251	4135	0.3168
-pe-	10.00	20.00	-4237	4150	0.3168
-pe-	10.00	20.00	-4217	4166	0.3166
-pe-	10.00	20.00	-4203	4176	0.3165
-pe-	10.00	20.00	-4194	4182	0.3163
-pe-	10.00	20.01	-4191	4182	0.3162
-pe-	10.00	20.01	-4188	4186	0.3162
-pe-	10.00	20.00	-4182	4189	0.3161
-pe-	10.01	20.01	-4184	4187	0.3161

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Setpoint No. 2
 Setpoint Upper: 10.00 °C
 Setpoint Lower: 20.00 °C
 Temperature Upper: 10.00 °C
 CalibFactor Upper: 0.026312
 Results Upper: 0.3181 W/mK
 Temperature Lower: 20.01 °C
 CalibFactor Lower: 0.025969
 Results Lower: 0.3142 W/mK
 Percent Difference: 1.25%

Thermal Equilibrium Criteria:

Temperature Equilibrium: 0.20
 Between Block HFM Equil.: 49
 HFM Percent Change: 2.00
 Min Number of Blocks: 4
 Calculation Blocks: 3

Setpoint duration: 89 min

Block Averages for setpoint 3 in SI units

	Tupper	Tlower	Qupper	Qlower	Lambda
	[°C]	[°C]	[μV]	[μV]	[W/mK]
-ne-	5.48	15.34	-11501	-2896	0.5580
-ne-	4.85	14.84	-7595	1228	0.3386
-te-	4.99	14.98	-6225	2444	0.3315
-te-	4.99	15.00	-5515	2994	0.3245
-te-	5.00	15.00	-5026	3382	0.3202
-te-	5.00	15.00	-4707	3643	0.3177
-te-	5.00	15.00	-4501	3800	0.3157
-te-	5.00	15.00	-4366	3917	0.3149
-te-	5.00	15.00	-4282	3981	0.3140
-te-	5.00	15.01	-4227	4031	0.3137
-te-	5.00	15.00	-4194	4053	0.3134
-pe-	4.99	15.00	-4176	4069	0.3133
-pe-	4.99	15.00	-4153	4086	0.3130
-pe-	4.99	15.00	-4142	4096	0.3130
-pe-	5.00	15.00	-4137	4099	0.3129
-pe-	5.00	15.00	-4130	4106	0.3129
-pe-	5.00	15.01	-4130	4108	0.3130

-pe-	5.00	15.00	-4126	4109	0.3129
-pe-	5.00	15.01	-4125	4109	0.3128
-pe-	5.00	15.01	-4122	4111	0.3128
-pe-	5.00	15.01	-4130	4103	0.3127

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Setpoint No. 3
Setpoint Upper: 5.00 °C
Setpoint Lower: 15.00 °C
Temperature Upper: 5.00 °C
CalibFactor Upper: 0.026610
Results Upper: 0.3171 W/mK
Temperature Lower: 15.01 °C
CalibFactor Lower: 0.026002
Results Lower: 0.3085 W/mK
Percent Difference: 2.75%

Thermal Equilibrium Criteria:
Temperature Equilibrium: 0.20
Between Block HFM Equil.: 49
HFM Percent Change: 2.00
Min Number of Blocks: 4
Calculation Blocks: 3

Results Table -- SI Units

Mean Temp	Upper Cond	Lower Cond	Average Cond
20.01	0.3185	0.3182	0.3184
15.01	0.3181	0.3142	0.3162
10.00	0.3171	0.3085	0.3128