

Wintherm32v3 Version 3.31.143 Uni
Instrument: F200s
Instrument Program Version 290
Instrument Serial Number: 2520

Sample Name: 2023_12_15_M3_3_10_11
Thickness: 28.38mm
Rear Left : 28.75 mm Rear Right : 28.32 mm
Front Left: 28.45 mm Front Right: 27.99 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: 59 min

Block Averages for setpoint 1 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	15.57	24.09	-13096	6150	0.8325
-ne-	14.99	24.97	-9025	4066	0.4836
-te-	15.00	25.01	-7529	4704	0.4507
-te-	15.00	25.01	-6861	5060	0.4391
-te-	15.00	25.01	-6501	5256	0.4330
-te-	15.00	25.01	-6311	5356	0.4297
-te-	15.00	25.01	-6215	5407	0.4280
-te-	15.00	25.01	-6162	5433	0.4270
-te-	15.00	25.01	-6127	5454	0.4265
-pe-	15.00	25.01	-6119	5458	0.4263
-pe-	15.00	25.01	-6110	5463	0.4261
-pe-	15.00	25.02	-6099	5466	0.4257
-pe-	15.00	25.01	-6098	5468	0.4259
-pe-	15.00	25.01	-6099	5462	0.4257

Setpoint No. 1
Setpoint Upper: 15.00 °C
Setpoint Lower: 25.00 °C
Temperature Upper: 15.00 °C
CalibFactor Upper: 0.026016
Results Upper: 0.4498 W/mK
Temperature Lower: 25.01 °C
CalibFactor Lower: 0.025934
Results Lower: 0.4018 W/mK
Percent Difference: 11.27%

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: 67 min

Block Averages for setpoint 2 in SI units

	Tupper [°C]	Tlower [°C]	Qupper [μV]	Qlower [μV]	Lambda [W/mK]
-ne-	10.15	20.05	-15860	-2081	0.6751

-te-	9.99	20.00	-10405	2959	0.4972
-te-	10.00	20.00	-8431	4016	0.4629
-te-	10.00	20.00	-7314	4616	0.4431
-te-	10.00	20.00	-6702	4949	0.4325
-te-	10.00	20.01	-6372	5128	0.4267
-te-	10.01	20.01	-6186	5220	0.4232
-te-	10.01	20.01	-6092	5268	0.4215
-te-	10.00	20.01	-6040	5296	0.4205
-te-	10.00	20.00	-6010	5311	0.4200
-pe-	10.00	20.00	-6005	5316	0.4200
-pe-	10.00	20.00	-5993	5323	0.4198
-pe-	10.00	20.00	-5989	5332	0.4201
-pe-	10.00	20.00	-5984	5339	0.4201
-pe-	10.00	20.00	-5979	5340	0.4199
-pe-	10.00	20.00	-5980	5338	0.4199

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Setpoint No.	2		
Setpoint Upper:	10.00	°C	
Setpoint Lower:	20.00	°C	
Temperature Upper:	10.00	°C	
CalibFactor Upper:	0.026313		
Results Upper:	0.4465	W/mK	
Temperature Lower:	20.00	°C	
CalibFactor Lower:	0.025969		
Results Lower:	0.3934	W/mK	
Percent Difference:	12.66%		

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: 63 min

Block Averages for setpoint 3 in SI units

	Tupper	Tlower	Qupper	Qlower	Lambda
	[°C]	[°C]	[μV]	[μV]	[W/mK]
-ne-	5.23	15.07	-15635	-2067	0.6772
-te-	4.99	14.99	-10242	2882	0.4927
-te-	4.99	15.00	-8294	3910	0.4571
-te-	5.00	15.00	-7194	4505	0.4376
-te-	5.00	15.01	-6591	4825	0.4266
-te-	5.00	15.01	-6264	4996	0.4207
-te-	5.00	15.01	-6085	5091	0.4174
-te-	5.00	15.01	-5979	5144	0.4154
-te-	5.00	15.01	-5931	5163	0.4142
-pe-	5.00	15.00	-5908	5175	0.4137
-pe-	4.99	15.00	-5889	5186	0.4134
-pe-	5.00	15.00	-5870	5196	0.4131
-pe-	5.00	15.01	-5859	5199	0.4127
-pe-	5.00	15.01	-5857	5199	0.4128
-pe-	5.00	15.01	-5858	5196	0.4127

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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:	0.4421	W/mK	
Temperature Lower:	15.01	°C	
CalibFactor Lower:	0.026002		
Results Lower:	0.3833	W/mK	
Percent Difference:	14.24%		

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	0.4498	0.4018	0.4258
15.00	0.4465	0.3934	0.4200
10.00	0.4421	0.3833	0.4127