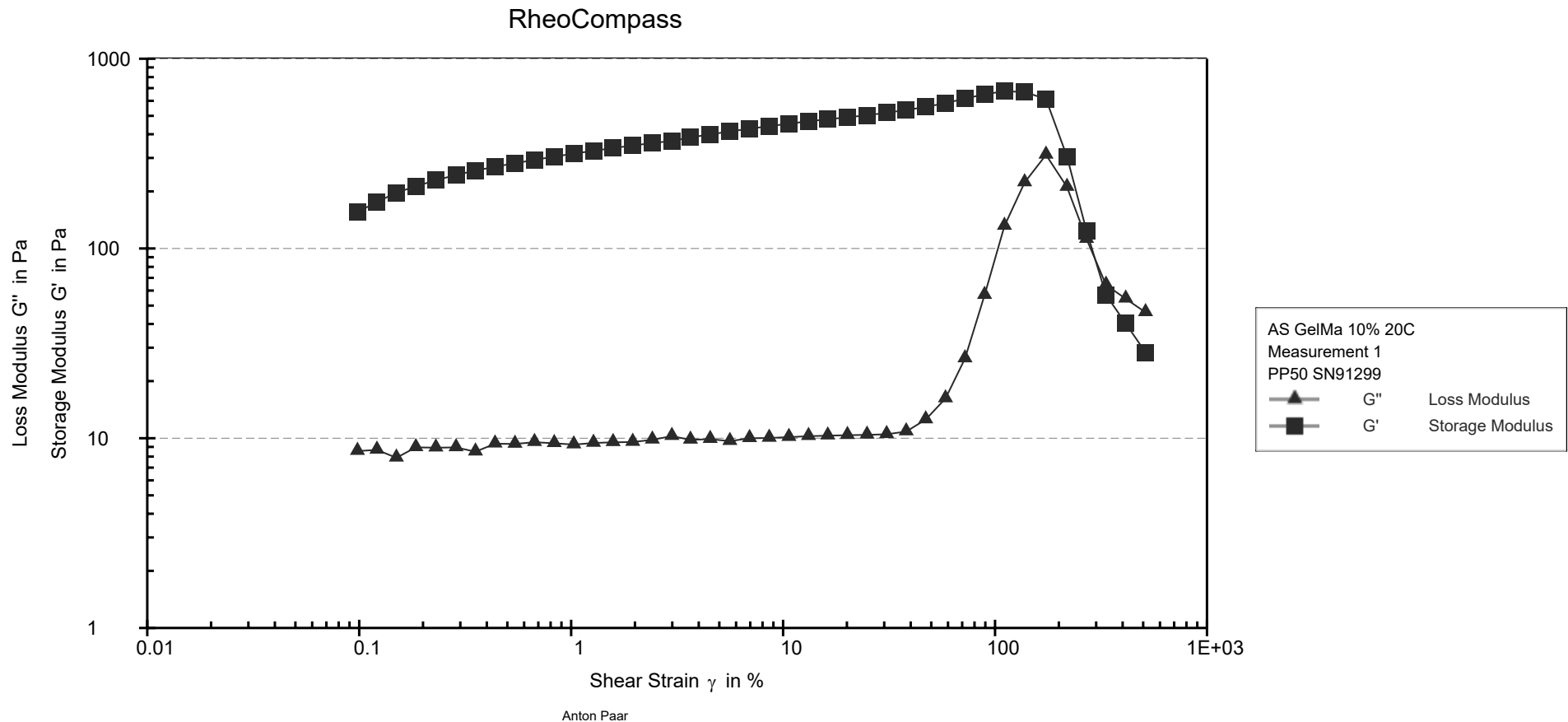


Amplitude Sweep of the GelMa 10% 20C



Method description:

To measure storage modulus (G') and loss modulus (G'') by varying shear strain from solid to liquid regime. Vary Shear strain (oscillating): 0.01 to 500 % (Ramp Logarithmic). Keep 'frequency' constant at 1 Hz.

Amplitude Sweep of the GelMa 10% 20C

AS GelMa 10% 20C, Measurement 1, Interval 1

Point No. №	Shear Strain γ [%]	Shear Stress τ [Pa]	Storage Modulus G' [Pa]	Loss Modulus G'' [Pa]	Loss Factor $\tan(\delta)$ [1]	Torque M [mN·m]	Status Stat
1	0.0981	0.15255	155.25	8.5563	0.055	0.0056011	
2	0.121	0.21376	176.09	8.682	0.049	0.0078482	
3	0.15	0.29474	196.61	7.8876	0.040	0.010822	
4	0.185	0.3944	212.91	8.9523	0.042	0.01448	
5	0.23	0.52659	228.74	8.9159	0.039	0.019334	
6	0.286	0.69987	244.22	8.9448	0.037	0.025696	
7	0.354	0.91017	257.22	8.4921	0.033	0.033417	
8	0.437	1.18	269.65	9.3564	0.035	0.043325	
9	0.543	1.5286	281.27	9.3295	0.033	0.056123	
10	0.672	1.9691	293.07	9.53	0.033	0.072296	
11	0.832	2.5374	304.77	9.4064	0.031	0.093163	
12	1.03	3.2566	316.26	9.2582	0.029	0.11957	
13	1.27	4.1702	327.04	9.4374	0.029	0.15311	
14	1.58	5.3391	338.35	9.521	0.028	0.19603	
15	1.95	6.8138	348.82	9.5477	0.027	0.25017	
16	2.42	8.6814	359.26	9.8167	0.027	0.31874	
17	2.99	11.024	368.92	10.257	0.028	0.40476	
18	3.66	14.065	384.65	9.8081	0.025	0.51639	
19	4.53	18.094	399.29	9.8901	0.025	0.66434	
20	5.61	23.214	413.72	9.6531	0.023	0.85232	
21	6.95	29.715	427.63	9.9937	0.023	1.091	



Method description:

To measure storage modulus (G') and loss modulus (G'') by varying shear strain from solid to liquid regime. Vary Shear strain (oscillating): 0.01 to 500 % (Ramp Logarithmic). Keep 'frequency' constant at 1 Hz.

Amplitude Sweep of the GelMa 10% 20C

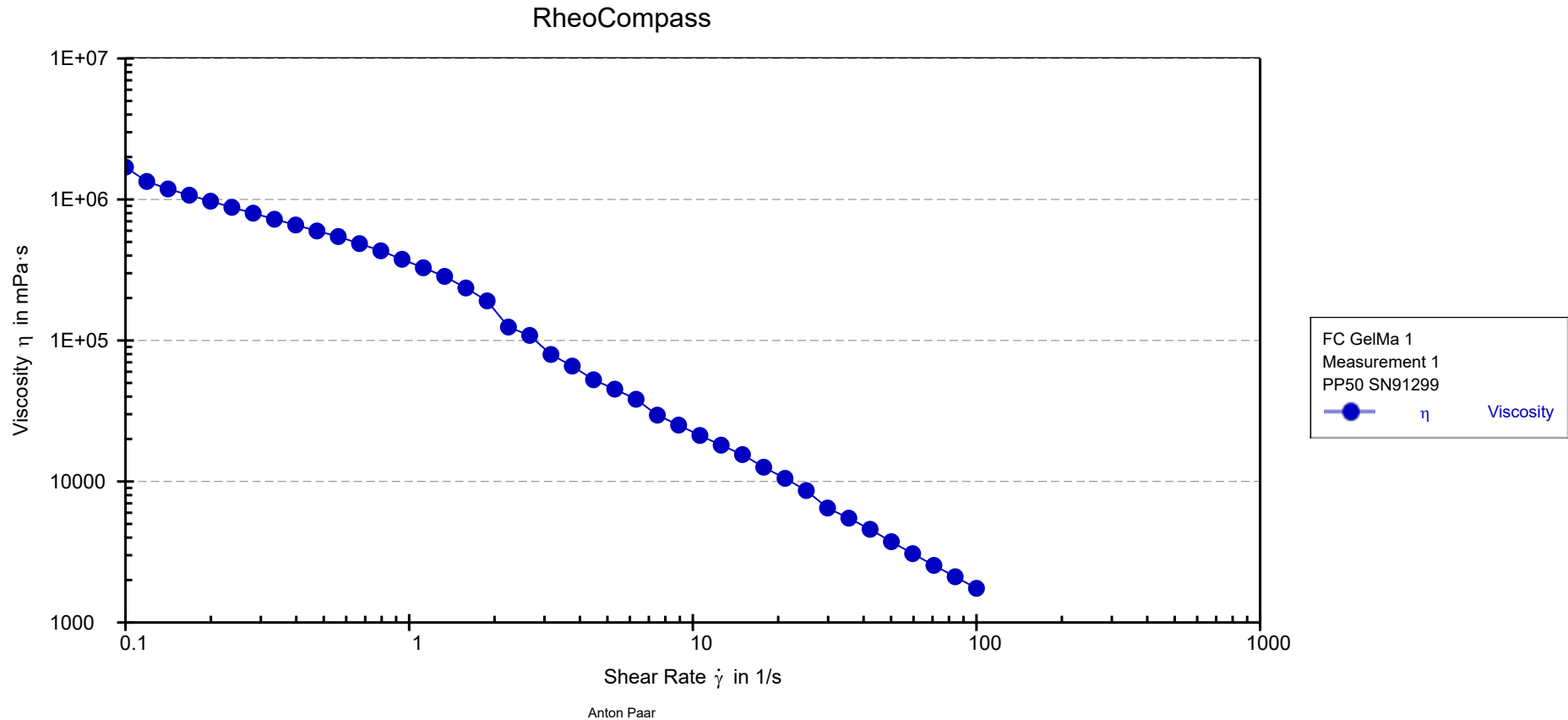
22	8.6	37.966	441.26	10.031	0.023	1.3939	
23	10.7	48.442	454.74	10.135	0.022	1.7786	
24	13.2	61.73	468.13	10.248	0.022	2.2664	
25	16.3	77.979	479.64	10.316	0.022	2.863	
26	20.1	98.867	491.38	10.376	0.021	3.6299	
27	24.9	125.39	503.6	10.418	0.021	4.6037	
28	30.8	159.93	519.17	10.491	0.020	5.872	
29	38.1	204.47	536.63	10.846	0.020	7.5074	
30	47.1	262.24	556.77	12.546	0.023	9.6282	
31	58.4	341.07	583.96	16.195	0.028	12.523	
32	72.1	444.75	615.92	26.306	0.043	16.329	
33	89.3	582.42	649.98	56.789	0.087	21.384	
34	111	760.16	673.46	131.41	0.195	27.91	
35	138	971.51	668.39	222.72	0.333	35.669	
36	174	1195.6	612.54	311.48	0.509	43.897	
37	219	809.7	304.73	210.77	0.692	29.728	
38	270	451.14	123.6	112.15	0.907	16.564	
39	334	286.63	56.878	64.277	1.130	10.524	
40	414	279.58	40.238	54.315	1.350	10.265	WMa
41	513	277.49	28.336	46.066	1.626	10.188	



Method description:

To measure storage modulus (G') and loss modulus (G'') by varying shear strain from solid to liquid regime. Vary Shear strain (oscillating): 0.01 to 500 % (Ramp Logarithmic). Keep 'frequency' constant at 1 Hz.

Flow curve of the GelMa 10% 20C



Method description:
To measure viscosity by varying Shear Rate. Vary Shear Rate: 0.1 to 100 s⁻¹ (Ramp Logarithmic)

Flow curve of the GelMa 10% 20C

FC GelMa 1, Measurement 1, Interval 1

Point No. №	Shear Rate $\dot{\gamma}$ [1/s]	Shear Stress τ [Pa]	Viscosity η [mPa·s]	Torque M [mN·m]	Status Stat
1	0.1	169.48	1.6948E+06	6.2226	Sdy,Dy_auto
2	0.119	159.47	1.3417E+06	5.8549	Sdy,Dy_auto
3	0.141	167.7	1.1872E+06	6.1571	Sdy,Dy_auto
4	0.168	180.09	1.0728E+06	6.6122	Sdy,Dy_auto
5	0.2	193.95	9.7206E+05	7.121	Sdy,Dy_auto
6	0.237	208.53	8.7939E+05	7.6564	Sdy,Dy_auto
7	0.282	225.29	7.9937E+05	8.2718	Sdy,Dy_auto
8	0.335	242.54	7.2408E+05	8.9049	Sdy,Dy_auto
9	0.398	262.45	6.5924E+05	9.6359	Sdy,Dy_auto
10	0.473	282.87	5.9785E+05	10.386	Sdy,Dy_auto
11	0.562	306.94	5.4582E+05	11.269	Sdy,Dy_auto
12	0.668	325.15	4.8651E+05	11.938	Sdy,Dy_auto
13	0.794	343.57	4.3252E+05	12.614	Sdy,Dy_auto
14	0.944	355.31	3.7636E+05	13.045	Sdy,Dy_auto
15	1.12	367.67	3.2768E+05	13.499	Sdy,Dy_auto
16	1.33	379.8	2.8481E+05	13.944	Sdy,Dy_auto
17	1.58	373.38	2.3559E+05	13.709	Sdy,Dy_auto
18	1.88	359.47	1.9084E+05	13.198	Sdy,Dy_auto
19	2.24	278.7	1.2449E+05	10.232	Sdy,Dy_auto
20	2.66	289.07	1.0864E+05	10.613	Sdy,Dy_auto
21	3.16	251.58	79557	9.2369	Sdy,Dy_auto



Method description:

To measure viscosity by varying Shear Rate. Vary Shear Rate: 0.1 to 100 s⁻¹ (Ramp Logarithmic)

Flow curve of the GelMa 10% 20C

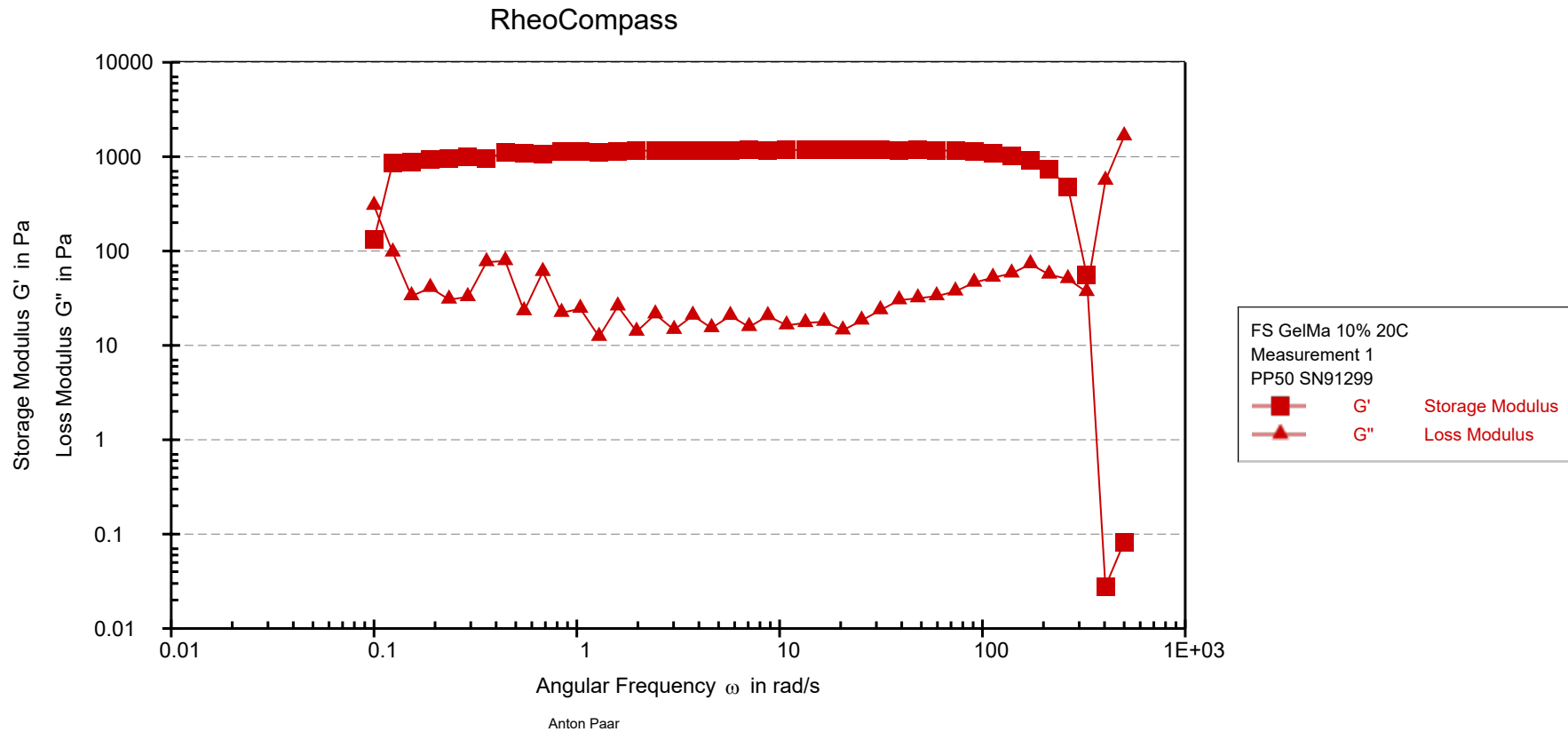
22	3.76	247.39	65825	9.0832	Sdy,Dy_auto
23	4.47	235.15	52644	8.6338	Sdy,Dy_auto
24	5.31	239.79	45169	8.8041	Sdy,Dy_auto
25	6.31	241.61	38292	8.8707	Sdy,Dy_auto
26	7.5	221.56	29545	8.1347	Sdy,Dy_auto
27	8.91	223.74	25103	8.2148	Sdy,Dy_auto
28	10.6	224.62	21204	8.2469	Sdy,Dy_auto
29	12.6	227.83	18097	8.3649	Sdy,Dy_auto
30	15	232.15	15514	8.5234	Sdy,Dy_auto
31	17.8	224.48	12623	8.242	Sdy,Dy_auto
32	21.1	222.48	10527	8.1686	Sdy,Dy_auto
33	25.1	216.68	8625.5	7.9555	Sdy,Dy_auto
34	29.9	193.51	6481.9	7.1049	Sdy,Dy_auto
35	35.5	194.95	5494	7.1575	Sdy,Dy_auto
36	42.2	193.15	4580.1	7.0917	Sdy,Dy_auto
37	50.1	187.49	3740.8	6.8839	Sdy,Dy_auto
38	59.6	183.36	3078.2	6.7322	Sdy,Dy_auto
39	70.8	179.87	2540.7	6.604	Sdy,Dy_auto
40	84.1	177.55	2110.1	6.5187	Sdy,Dy_auto
41	100	174.75	1747.4	6.416	Sdy,Dy_auto



Method description:

To measure viscosity by varying Shear Rate. Vary Shear Rate: 0.1 to 100 s⁻¹ (Ramp Logarithmic)

Frequency sweep of the GelMa 10% 20C



Method description:

To measure G' and G'' by varying angular frequency in linear viscoelastic region. Vary Angular Frequency: 0.1 to 500 rad/s (Ramp Logarithmic). Keep Shear Strain constant at 0.1%

Frequency sweep of the GelMa 10% 20C

FS GelMa 10% 20C, Measurement 1, Interval 1

Point No. №	Angular Frequency ω [rad/s]	Complex Viscosity $ \eta^* $ [Pa·s]	Storage Modulus G' [Pa]	Loss Modulus G'' [Pa]	Loss Factor $\tan(\delta)$ [1]	Shear Strain γ [%]	Shear Stress τ [Pa]	Torque M [mN·m]	Status Stat
1	0.1	3295.5	131.58	302.14	2.296	0.00739	0.024362	0.00089447	M- ,WMa
2	0.124	7008	861.7	96.682	0.112	0.0489	0.42428	0.015577	WMa
3	0.153	5737.3	877.7	33.279	0.038	0.0974	0.85555	0.031412	
4	0.189	4898.3	926.94	40.737	0.044	0.0952	0.8834	0.032434	
5	0.234	4101.8	960.83	30.658	0.032	0.0991	0.95265	0.034977	
6	0.29	3428.4	993.64	32.558	0.033	0.0988	0.98239	0.036069	
7	0.359	2696.2	964.36	76.369	0.079	0.105	1.0109	0.037116	WMa
8	0.444	2500.3	1107.2	78.365	0.071	0.0891	0.98943	0.036327	WMa
9	0.549	1960.7	1076.7	23.066	0.021	0.113	1.2142	0.044581	WMa
10	0.68	1584.1	1074.9	60.159	0.056	0.0964	1.038	0.038111	
11	0.841	1339.7	1126.4	22.153	0.020	0.0959	1.0807	0.039676	
12	1.04	1087.6	1131.3	24.481	0.022	0.101	1.1449	0.042035	
13	1.29	862.54	1110.3	12.332	0.011	0.0994	1.1037	0.040522	
14	1.59	720.08	1146.7	25.923	0.023	0.1	1.1474	0.042128	
15	1.97	585.86	1154.5	14.003	0.012	0.101	1.1627	0.04269	
16	2.44	475.87	1160.2	21.352	0.018	0.0994	1.1536	0.042356	
17	3.02	387.5	1169	14.628	0.013	0.0991	1.1587	0.042541	
18	3.73	310.47	1158.8	20.702	0.018	0.0994	1.152	0.042294	
19	4.62	251.88	1163.3	15.27	0.013	0.0998	1.1616	0.04265	
20	5.71	204.55	1168.8	20.586	0.018	0.0992	1.1598	0.042582	
21	7.07	166.82	1179.5	15.693	0.013	0.0991	1.1689	0.042917	



Method description:

To measure G' and G'' by varying angular frequency in linear viscoelastic region. Vary Angular Frequency: 0.1 to 500 rad/s (Ramp Logarithmic). Keep Shear Strain constant at 0.1%

Frequency sweep of the GelMa 10% 20C

22	8.75	133.59	1168.6	20.499	0.018	0.1	1.1708	0.042987	
23	10.8	108.9	1178.8	16.338	0.014	0.0995	1.1731	0.043072	
24	13.4	87.859	1176.6	17.293	0.015	0.1	1.1791	0.04329	
25	16.6	71.459	1184.1	17.815	0.015	0.1	1.1858	0.043537	
26	20.5	57.705	1183.1	14.435	0.012	0.1	1.1861	0.043548	
27	25.4	46.64	1183.2	18.363	0.016	0.1	1.1842	0.043479	
28	31.4	37.712	1183.6	23.622	0.020	0.101	1.1902	0.0437	
29	38.8	30.217	1173.3	30.132	0.026	0.1	1.1764	0.043191	
30	48.1	24.477	1175.9	31.629	0.027	0.1	1.1776	0.043237	
31	59.5	19.668	1169	33.249	0.028	0.1	1.1738	0.043098	
32	73.6	15.664	1151.8	37.345	0.032	0.101	1.1623	0.042674	
33	91	12.403	1128	46.356	0.041	0.0989	1.1167	0.041	
34	113	9.6932	1090.5	52.24	0.048	0.101	1.1006	0.040409	
35	139	7.2785	1012.6	57.871	0.057	0.0998	1.0128	0.037184	
36	172	5.3175	913.99	72.63	0.079	0.1	0.91817	0.033711	
37	213	3.4724	738.66	56.372	0.076	0.1	0.74234	0.027255	
38	264	1.815	476.43	50.529	0.106	0.1	0.47904	0.017588	
39	327	0.20528	55.993	36.877	0.659	0.1	0.067015	0.0024605	
40	404	1.3805	0.027894	557.88	20000.000	0.1	0.558	0.020487	ME-,taD
41	500	3.2914	0.082286	1645.7	20000.000	0.1	1.646	0.060434	ME-,taD



Method description:

To measure G' and G'' by varying angular frequency in linear viscoelastic region. Vary Angular Frequency: 0.1 to 500 rad/s (Ramp Logarithmic). Keep Shear Strain constant at 0.1%

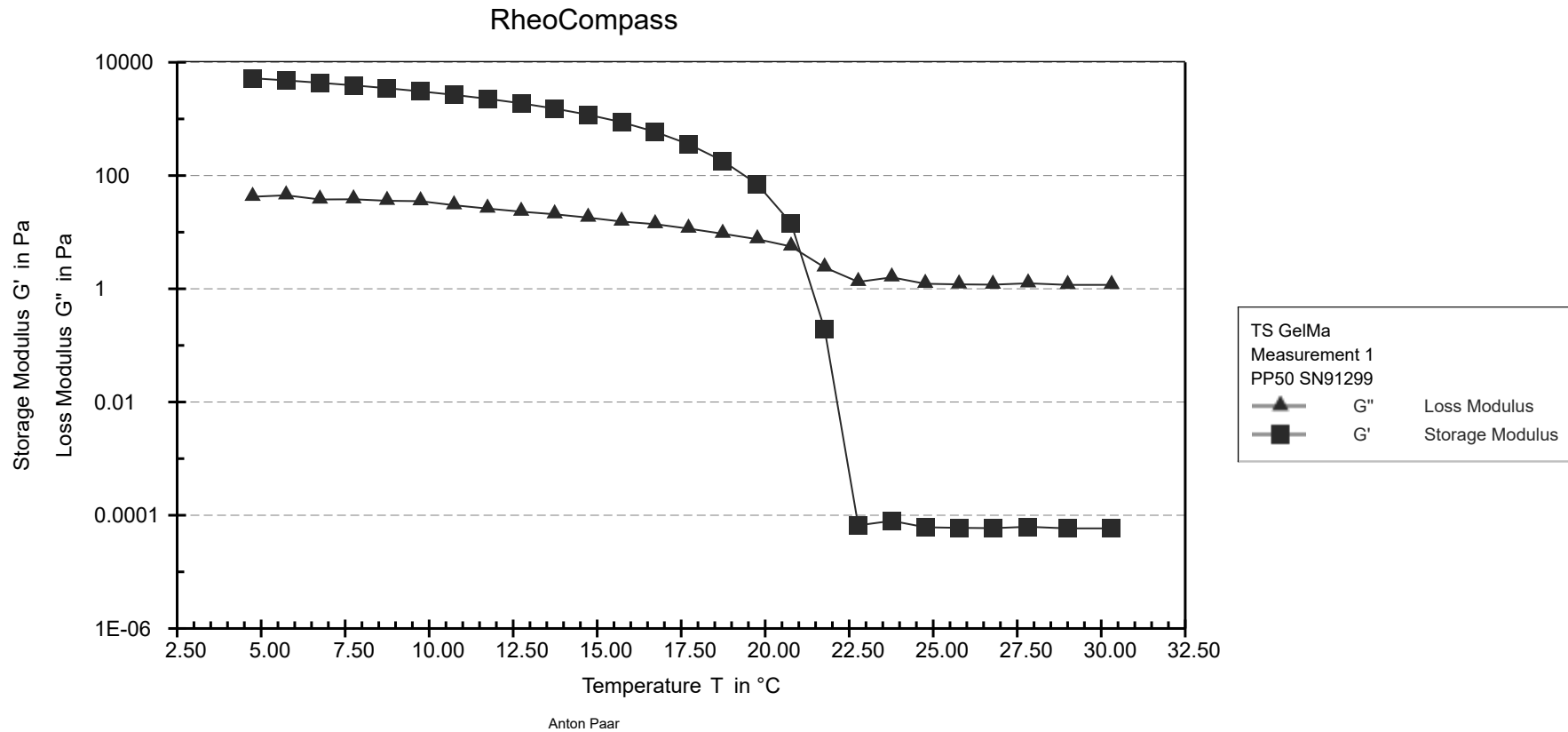
Frequency sweep of the GelMa 10% 20C



Method description:

To measure G' and G'' by varying angular frequency in linear viscoelastic region. Vary Angular Frequency: 0.1 to 500 rad/s (Ramp Logarithmic). Keep Shear Strain constant at 0.1%

Temperature Sweep of the GelMa 10%



Method description:
Vary temperture from 30 to 5 C keep shear strain constant 1%.

Temperature Sweep of the GelMa 10%

TS GelMa, Measurement 1, Interval 1

Point No. №	Time t [s]	Temperature T [°C]	Storage Modulus G' [Pa]	Loss Modulus G'' [Pa]	Loss Factor tan(δ) [1]	Complex Viscosity η* [mPa·s]	Gap d [mm]	Normal Force F _N [N]	Torque M [μN·m]	Status Stat
1	60.145	30.31	5.8651E-05	1.173	2E+04	117.3	1.000	---	0.43055	M- ,ME -,taD
2	120.009	29.00	5.8609E-05	1.1722	2E+04	117.22	1.001	---	0.43074	M- ,ME -,taD
3	180.000	27.83	6.2512E-05	1.2502	2E+04	125.02	1.001	---	0.45855	M- ,ME -,taD
4	240.000	26.78	5.9131E-05	1.1826	2E+04	118.26	1.000	---	0.4341	M- ,ME -,taD
5	300.000	25.77	5.9878E-05	1.1976	2E+04	119.76	1.000	---	0.43944	M- ,ME -,taD
6	360.000	24.76	6.136E-05	1.2272	2E+04	122.72	1.000	---	0.44974	M- ,ME -,taD
7	420.000	23.77	7.9675E-05	1.5935	2E+04	159.35	1.000	---	0.58094	M- ,ME -,taD
8	480.000	22.77	6.6197E-05	1.3239	2E+04	132.39	1.000	---	0.48626	M- ,ME -,taD
9	540.000	21.77	0.19489	2.3886	12.3	239.66	1.001	---	0.87706	M- ,ME -
10	600.000	20.77	14.489	5.5893	0.386	1552.9	1.001	---	5.5895	
11	660.000	19.77	70.42	7.5136	0.107	7082	1.001	---	24.963	WMa
12	720.000	18.74	181.75	9.3857	0.0516	18199	1.001	---	63.923	WMa
13	780.000	17.72	359.81	11.568	0.0322	36000	1.001	---	126.87	WMa



Method description:
Vary temperture from 30 to 5 C keep shear strain constant 1%.

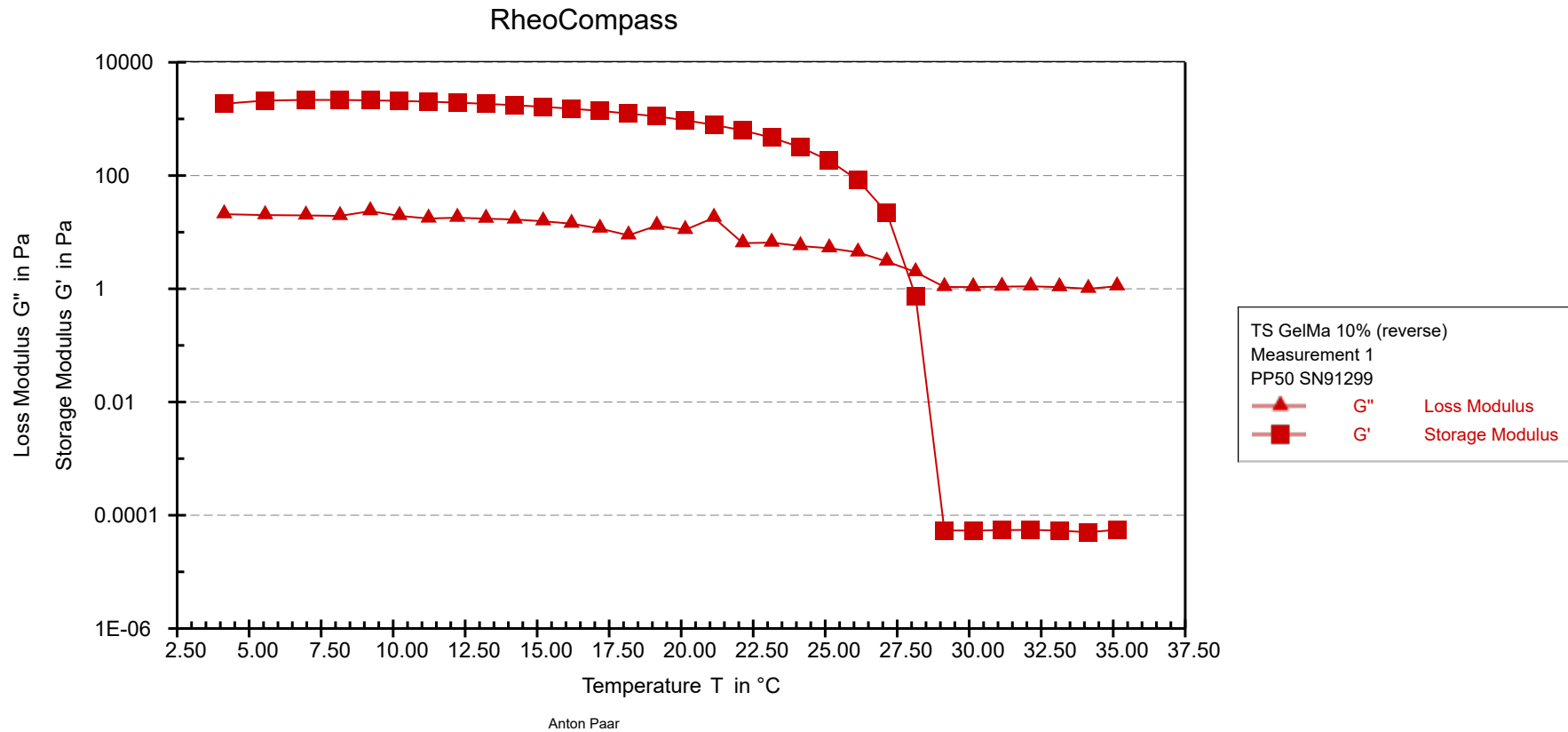
Temperature Sweep of the GelMa 10%

14	840.000	16.72	591.79	13.861	0.0234	59195	1.001	---	210.28	WMa
15	900.000	15.73	877.23	15.409	0.0176	87736	1.000	---	312.87	
16	960.000	14.73	1187.7	18.068	0.0152	1.1878E+05	1.000	---	427.11	
17	1020.000	13.74	1525.4	20.728	0.0136	1.5255E+05	1.000	---	550.48	
18	1080.000	12.74	1887.1	23.041	0.0122	1.8873E+05	1.000	---	682.42	
19	1140.000	11.74	2269.2	26.118	0.0115	2.2694E+05	1.000	---	821.97	
20	1200.000	10.74	2664.7	29.931	0.0112	2.6648E+05	1.000	---	966.94	
21	1260.000	9.74	3070.6	35.273	0.0115	3.0708E+05	1.001	---	1115.7	
22	1320.000	8.75	3491.6	35.86	0.0103	3.4918E+05	1.001	---	1266.7	
23	1380.000	7.75	3919.2	38.125	0.00973	3.9193E+05	1.001	---	1424.8	
24	1440.000	6.75	4351.6	37.797	0.00869	4.3518E+05	1.001	---	1584.1	
25	1500.000	5.74	4792.4	44.809	0.00935	4.7926E+05	1.001	---	1746.7	
26	1560.000	4.75	5239.4	42.23	0.00806	5.2395E+05	1.001	---	1909.7	



Method description:
Vary temperture from 30 to 5 C keep shear strain constant 1%.

Temperature Sweep of the GelMa 10% (reverse)



Method description:
Vary temperature from 5 to 35 C keep shear strain constant 1%.

Temperature Sweep of the GelMa 10% (reverse)

TS GelMa 10% (reverse), Measurement 1, Interval 1

Point No. №	Time t [s]	Temperature T [°C]	Storage Modulus G' [Pa]	Loss Modulus G'' [Pa]	Loss Factor tan(δ) [1]	Complex Viscosity η* [mPa·s]	Gap d [mm]	Normal Force F _N [N]	Torque M [μN·m]	Status Stat
1	60.121	4.13	1855.9	20.77	0.0112	1.8561E+05	1.001	---	675.57	
2	120.000	5.56	2112.9	20.036	0.00948	2.113E+05	1.001	---	771.55	
3	180.000	6.97	2168	19.757	0.00911	2.1681E+05	1.001	---	795.73	
4	240.000	8.16	2163.7	19.371	0.00895	2.1637E+05	1.001	---	794.86	
5	300.000	9.21	2132.5	23.507	0.011	2.1326E+05	1.001	---	780.66	
6	360.000	10.22	2083	19.386	0.00931	2.0831E+05	1.001	---	765.74	
7	420.000	11.23	2019	17.437	0.00864	2.0191E+05	1.001	---	742	
8	480.000	12.23	1939.4	18.013	0.00929	1.9395E+05	1.001	---	713.69	
9	540.000	13.23	1848.7	17.321	0.00937	1.8488E+05	1.001	---	679.96	
10	600.000	14.22	1747.1	16.76	0.00959	1.7472E+05	1.001	---	642.96	
11	660.000	15.21	1639	15.595	0.00952	1.639E+05	1.001	---	603.63	
12	720.000	16.19	1517.7	14.127	0.00931	1.5178E+05	1.001	---	558.87	
13	780.000	17.18	1388.3	11.586	0.00835	1.3884E+05	1.001	---	511.54	
14	840.000	18.17	1243.6	8.7991	0.00708	1.2436E+05	1.000	---	457.89	
15	900.000	19.15	1112.1	13.017	0.0117	1.1122E+05	1.002	---	407.49	
16	960.000	20.14	946.58	10.988	0.0116	94665	1.002	---	349.9	
17	1020.000	21.14	785.72	18.019	0.0229	78592	1.001	---	291.94	
18	1080.000	22.14	626.7	6.4017	0.0102	62673	1.001	---	232.21	
19	1140.000	23.14	466.94	6.5453	0.014	46699	1.001	---	173.4	
20	1200.000	24.14	316.25	5.684	0.018	31630	1.001	---	117.95	
21	1260.000	25.14	183.66	5.206	0.0283	18373	1.001	---	68.639	



Method description:

Vary temperture from 5 to 35 C keep shear strain constant 1%.

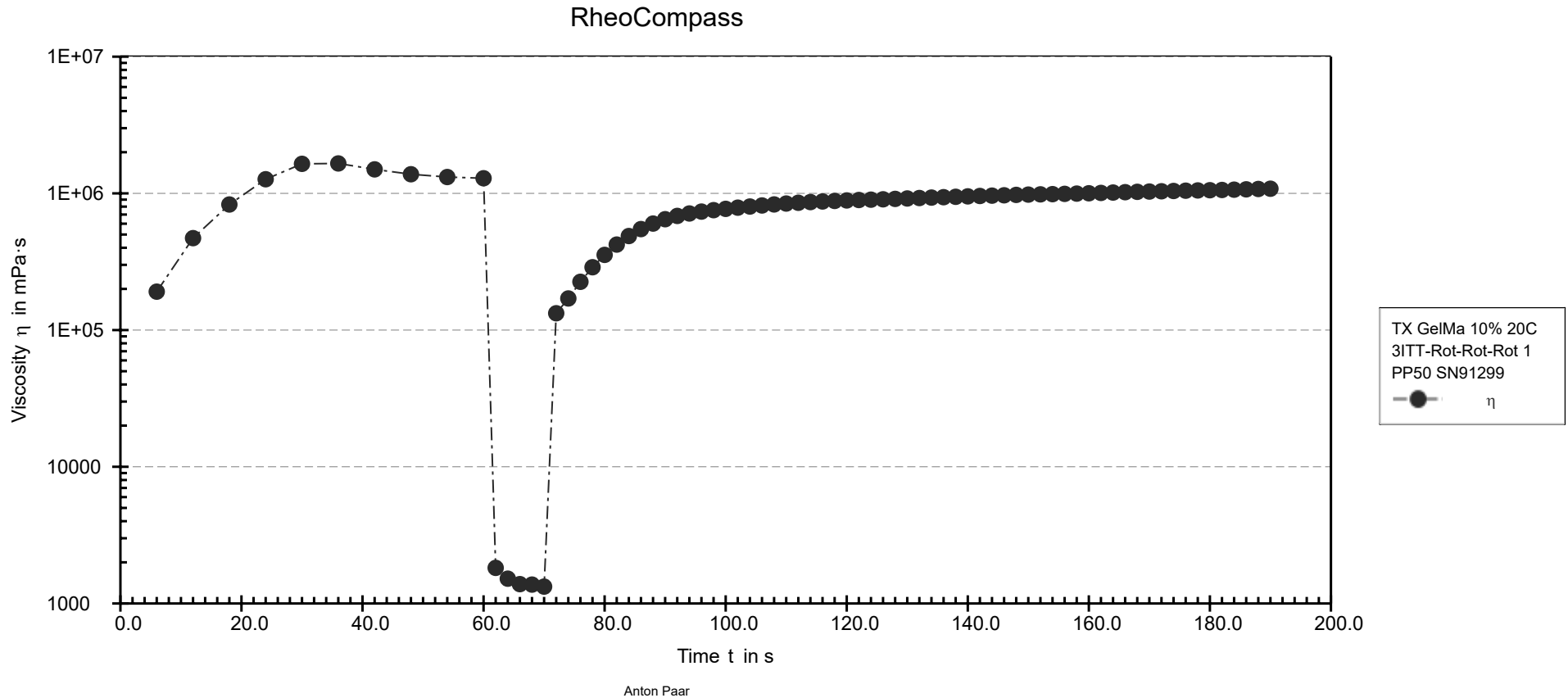
Temperature Sweep of the GelMa 10% (reverse)

22	1320.000	26.14	83.031	4.3958	0.0529	8314.7	1.001	---	31.191	
23	1380.000	27.14	22.054	3.0369	0.138	2226.2	1.001	---	8.3079	
24	1440.000	28.14	0.74542	1.9735	2.65	210.96	1.001	---	0.77592	M-
25	1500.000	29.14	5.3835E-05	1.0767	2E+04	107.67	1.001	---	0.39565	M- ,ME -,taD
26	1560.000	30.14	5.3616E-05	1.0723	2E+04	107.23	1.001	---	0.3914	M- ,ME -,taD
27	1620.000	31.14	5.4539E-05	1.0908	2E+04	109.08	1.000	---	0.39981	M- ,ME -,taD
28	1680.000	32.14	5.5214E-05	1.1043	2E+04	110.43	1.002	---	0.40405	M- ,ME -,taD
29	1740.000	33.13	5.3531E-05	1.0706	2E+04	107.06	1.001	---	0.39424	M- ,ME -,taD
30	1800.000	34.14	5.0037E-05	1.0007	2E+04	100.07	1.001	---	0.36847	M- ,ME -,taD
31	1860.000	35.13	5.54E-05	1.108	2E+04	110.8	1.001	---	0.40628	M- ,ME -,taD



Method description:
Vary temperture from 5 to 35 C keep shear strain constant 1%.

Thixotropic Behavior of the GelMa 10% 20C



Method description:

To measure viscosity by varying Shear Rate periodically high and low. Vary Shear Rate periodically from 0.1 s⁻¹ (for 60 s) to 100 s⁻¹ (for 10 s) and than to 0.1 s⁻¹ (120 s).

Thixotropic Behavior of the GelMa 10% 20C

TX GelMa 10% 20C, 3ITT-Rot-Rot-Rot 1, Interval 1

Point No. №	Time t [s]	Shear Stress τ [Pa]	Viscosity η [mPa·s]	Torque M [μ N·m]	Status Stat
1	6.00	19.103	1.9102E+05	701.37	Dy_au to
2	12.00	47.052	4.7053E+05	1727.5	Dy_au to
3	18.00	82.909	8.2912E+05	3044	Dy_au to
4	24.00	126.86	1.2687E+06	4657.9	Dy_au to
5	30.00	164.45	1.6445E+06	6037.9	Dy_au to
6	36.00	165.57	1.6557E+06	6078.8	Dy_au to
7	42.00	149.8	1.498E+06	5500	Dy_au to
8	48.00	138.01	1.3801E+06	5066.9	Dy_au to
9	54.00	131.7	1.317E+06	4835.3	Dy_au to
10	60.00	129	1.29E+06	4736.4	Dy_au to

TX GelMa 10% 20C, 3ITT-Rot-Rot-Rot 1, Interval 2



Method description:

To measure viscosity by varying Shear Rate periodically high and low. Vary Shear Rate periodically from 0.1 s⁻¹ (for 60 s) to 100 s⁻¹ (for 10 s) and than to 0.1 s⁻¹ (120 s).

Thixotropic Behavior of the GelMa 10% 20C

Point No. №	Time t [s]	Shear Stress τ [Pa]	Viscosity η [mPa·s]	Torque M [μ N·m]	Status Stat
1	62.00	182.28	1821.3	6692.6	Dy_au to
2	64.00	151.96	1518.6	5579.2	Dy_au to
3	66.00	138.59	1385.2	5088.3	Dy_au to
4	68.00	137.43	1374.4	5045.8	Dy_au to
5	70.00	132.92	1328.6	4880	Dy_au to

TX GelMa 10% 20C, 3ITT-Rot-Rot-Rot 1, Interval 3

Point No. №	Time t [s]	Shear Stress τ [Pa]	Viscosity η [mPa·s]	Torque M [μ N·m]	Status Stat
1	72.00	13.273	1.3273E+05	487.34	Dy_au to
2	74.00	17.034	1.7034E+05	625.42	Dy_au to
3	76.00	22.551	2.2551E+05	827.96	Dy_au to
4	78.00	28.822	2.8822E+05	1058.2	Dy_au to



Method description:

To measure viscosity by varying Shear Rate periodically high and low. Vary Shear Rate periodically from 0.1 s⁻¹ (for 60 s) to 100 s⁻¹ (for 10 s) and than to 0.1 s⁻¹ (120 s).

Thixotropic Behavior of the GelMa 10% 20C

5	80.00	35.478	3.5479E+05	1302.6	Dy_au to
6	82.00	42.212	4.2214E+05	1549.8	Dy_au to
7	84.00	48.739	4.8742E+05	1789.5	Dy_au to
8	86.00	54.79	5.4789E+05	2011.6	Dy_au to
9	88.00	60.141	6.0141E+05	2208.1	Dy_au to
10	90.00	64.724	6.4725E+05	2376.3	Dy_au to
11	92.00	68.389	6.8387E+05	2510.9	Dy_au to
12	94.00	71.266	7.1266E+05	2616.5	Dy_au to
13	96.00	73.577	7.3574E+05	2701.4	Dy_au to
14	98.00	75.385	7.5383E+05	2767.8	Dy_au to
15	100.00	77.036	7.7029E+05	2828.4	Dy_au to
16	102.00	78.61	7.861E+05	2886.2	Dy_au to
17	104.00	80.127	8.0126E+05	2941.9	Dy_au to
18	106.00	81.568	8.1567E+05	2994.8	Dy_au to



Method description:

To measure viscosity by varying Shear Rate periodically high and low. Vary Shear Rate periodically from 0.1 s⁻¹ (for 60 s) to 100 s⁻¹ (for 10 s) and than to 0.1 s⁻¹ (120 s).

Thixotropic Behavior of the GelMa 10% 20C

19	108.00	82.993	8.2998E+05	3047.1	o Dy_aut o
20	110.00	84.276	8.4276E+05	3094.2	Dy_aut o
21	112.00	85.344	8.5342E+05	3133.4	Dy_aut o
22	114.00	86.371	8.6369E+05	3171.2	Dy_aut o
23	116.00	87.252	8.7261E+05	3203.5	Dy_aut o
24	118.00	88.063	8.8058E+05	3233.3	Dy_aut o
25	120.00	88.793	8.8791E+05	3260.1	Dy_aut o
26	122.00	89.422	8.9421E+05	3283.2	Dy_aut o
27	124.00	89.953	8.995E+05	3302.7	Dy_aut o
28	126.00	90.493	9.0492E+05	3322.5	Dy_aut o
29	128.00	91.117	9.1116E+05	3345.4	Dy_aut o
30	130.00	91.77	9.1772E+05	3369.4	Dy_aut o
31	132.00	92.462	9.246E+05	3394.8	Dy_aut o



Method description:

To measure viscosity by varying Shear Rate periodically high and low. Vary Shear Rate periodically from 0.1 s⁻¹ (for 60 s) to 100 s⁻¹ (for 10 s) and than to 0.1 s⁻¹ (120 s).

Thixotropic Behavior of the GelMa 10% 20C

32	134.00	93.15	9.3152E+05	3420.1	Dy_au to
33	136.00	93.781	9.3783E+05	3443.2	Dy_au to
34	138.00	94.408	9.4405E+05	3466.2	Dy_au to
35	140.00	95.075	9.5074E+05	3490.7	Dy_au to
36	142.00	95.698	9.5704E+05	3513.6	Dy_au to
37	144.00	96.254	9.6253E+05	3534	Dy_au to
38	146.00	96.823	9.6824E+05	3554.9	Dy_au to
39	148.00	97.45	9.7455E+05	3577.9	Dy_au to
40	150.00	97.952	9.7955E+05	3596.3	Dy_au to
41	152.00	98.366	9.8364E+05	3611.6	Dy_au to
42	154.00	98.709	9.8703E+05	3624.2	Dy_au to
43	156.00	99.171	9.9169E+05	3641.1	Dy_au to
44	158.00	99.615	9.9613E+05	3657.4	Dy_au to
45	160.00	100.16	1.0016E+06	3677.5	Dy_au to



Method description:

To measure viscosity by varying Shear Rate periodically high and low. Vary Shear Rate periodically from 0.1 s⁻¹ (for 60 s) to 100 s⁻¹ (for 10 s) and than to 0.1 s⁻¹ (120 s).

Thixotropic Behavior of the GelMa 10% 20C

46	162.00	100.75	1.0075E+06	3699.1	o Dy_aut o
47	164.00	101.39	1.014E+06	3722.7	Dy_aut o
48	166.00	102.02	1.0202E+06	3745.8	Dy_aut o
49	168.00	102.62	1.0262E+06	3767.9	Dy_aut o
50	170.00	103.1	1.031E+06	3785.5	Dy_aut o
51	172.00	103.61	1.036E+06	3804	Dy_aut o
52	174.00	104.11	1.0411E+06	3822.3	Dy_aut o
53	176.00	104.62	1.0462E+06	3841.3	Dy_aut o
54	178.00	105.06	1.0506E+06	3857.4	Dy_aut o
55	180.00	105.45	1.0544E+06	3871.5	Dy_aut o
56	182.00	105.88	1.0588E+06	3887.3	Dy_aut o
57	184.00	106.43	1.0643E+06	3907.6	Dy_aut o
58	186.00	107.05	1.0704E+06	3930.3	Dy_aut o



Method description:

To measure viscosity by varying Shear Rate periodically high and low. Vary Shear Rate periodically from 0.1 s⁻¹ (for 60 s) to 100 s⁻¹ (for 10 s) and than to 0.1 s⁻¹ (120 s).

Thixotropic Behavior of the GelMa 10% 20C

59	188.00	107.68	1.0768E+06	3953.4	Dy_au o
60	190.00	108.15	1.0815E+06	3970.8	Dy_au o



Method description:

To measure viscosity by varying Shear Rate periodically high and low. Vary Shear Rate periodically from 0.1 s⁻¹ (for 60 s) to 100 s⁻¹ (for 10 s) and than to 0.1 s⁻¹ (120 s).