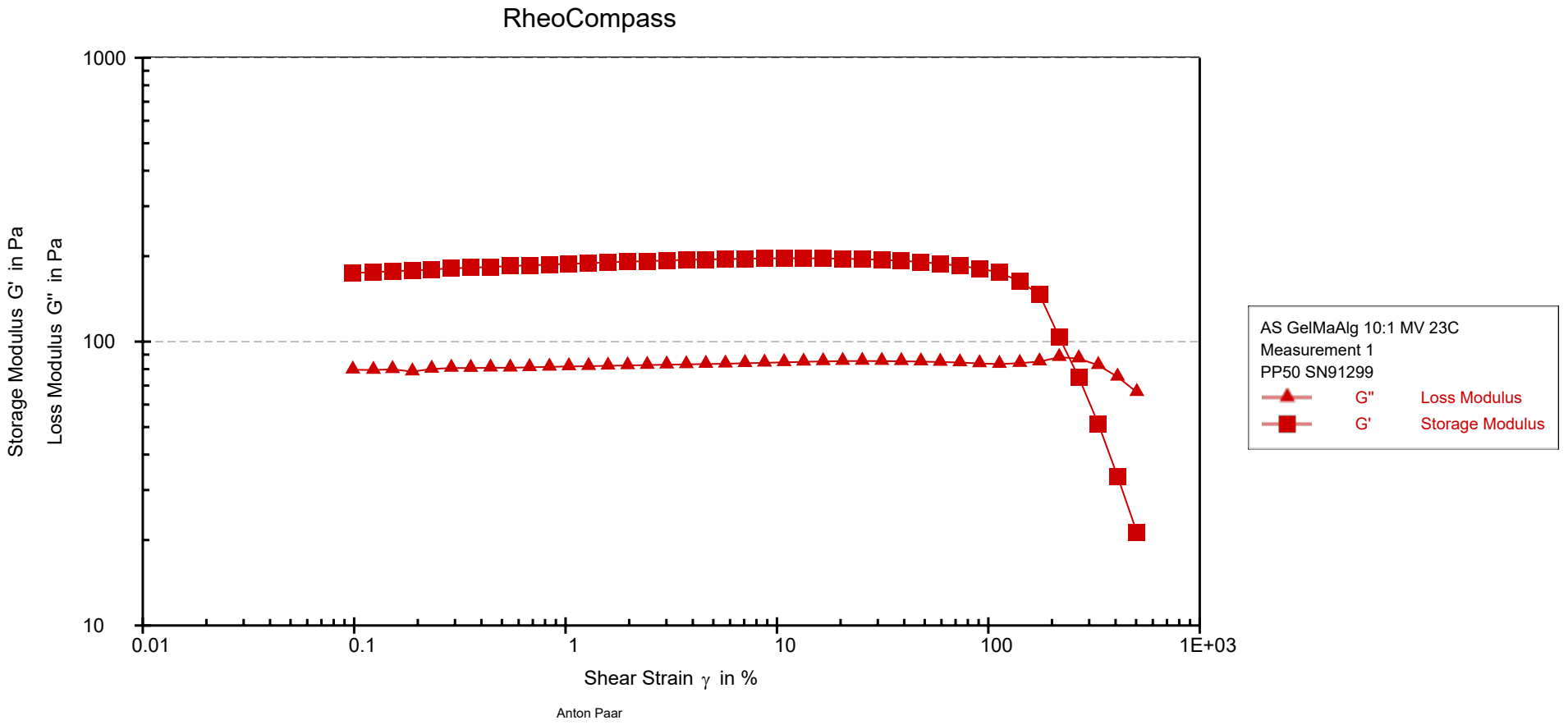
Amplitude Sweep of the GelMaAlg 10:1 MV 23C



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.

Foldink

Amplitude Sweep of the GelMaAlg 10:1 MV 23C

AS GelMaAlg 10:1 MV 23C, Measurement 1, Interval 1

Point No.	Shear Strain	Shear Stress	Storage Modulus	Loss Modulus	Loss Factor	Torque	Status
№	γ	τ	G'	G''	tan(δ)	M	Stat
	[%]	[Pa]	[Pa]	[Pa]	[1]	[mN·m]	
1	0.0985	0.18894	174.45	79.603	0.456	0.0069371	
2	0.123	0.23771	175.63	79.411	0.452	0.0087277	
3	0.152	0.29519	177.13	79.884	0.451	0.010838	
4	0.189	0.36649	177.86	78.405	0.441	0.013456	
5	0.233	0.45766	179.59	80.115	0.446	0.016803	
6	0.288	0.57147	181.08	80.743	0.446	0.020982	
7	0.356	0.71005	182.28	80.691	0.443	0.02607	
8	0.442	0.88444	183.11	80.903	0.442	0.032472	
9	0.548	1.1042	184.64	80.88	0.438	0.040542	
10	0.676	1.3693	185.65	81.183	0.437	0.050275	
11	0.839	1.71	186.81	81.481	0.436	0.062784	
12	1.04	2.1266	188.09	81.753	0.435	0.078079	
13	1.29	2.6461	188.86	81.93	0.434	0.097154	
14	1.59	3.2928	190.28	82.196	0.432	0.1209	
15	1.97	4.0962	191.24	82.434	0.431	0.15039	
16	2.43	5.0923	192.15	82.697	0.430	0.18697	
17	3.01	6.3315	193.19	82.935	0.429	0.23246	
18	3.73	7.8689	194.08	83.128	0.428	0.28891	
19	4.61	9.7663	194.73	83.373	0.428	0.35857	
20	5.71	12.123	195.36	83.57	0.428	0.44511	
21	7.06	15.049	195.99	83.905	0.428	0.55251	

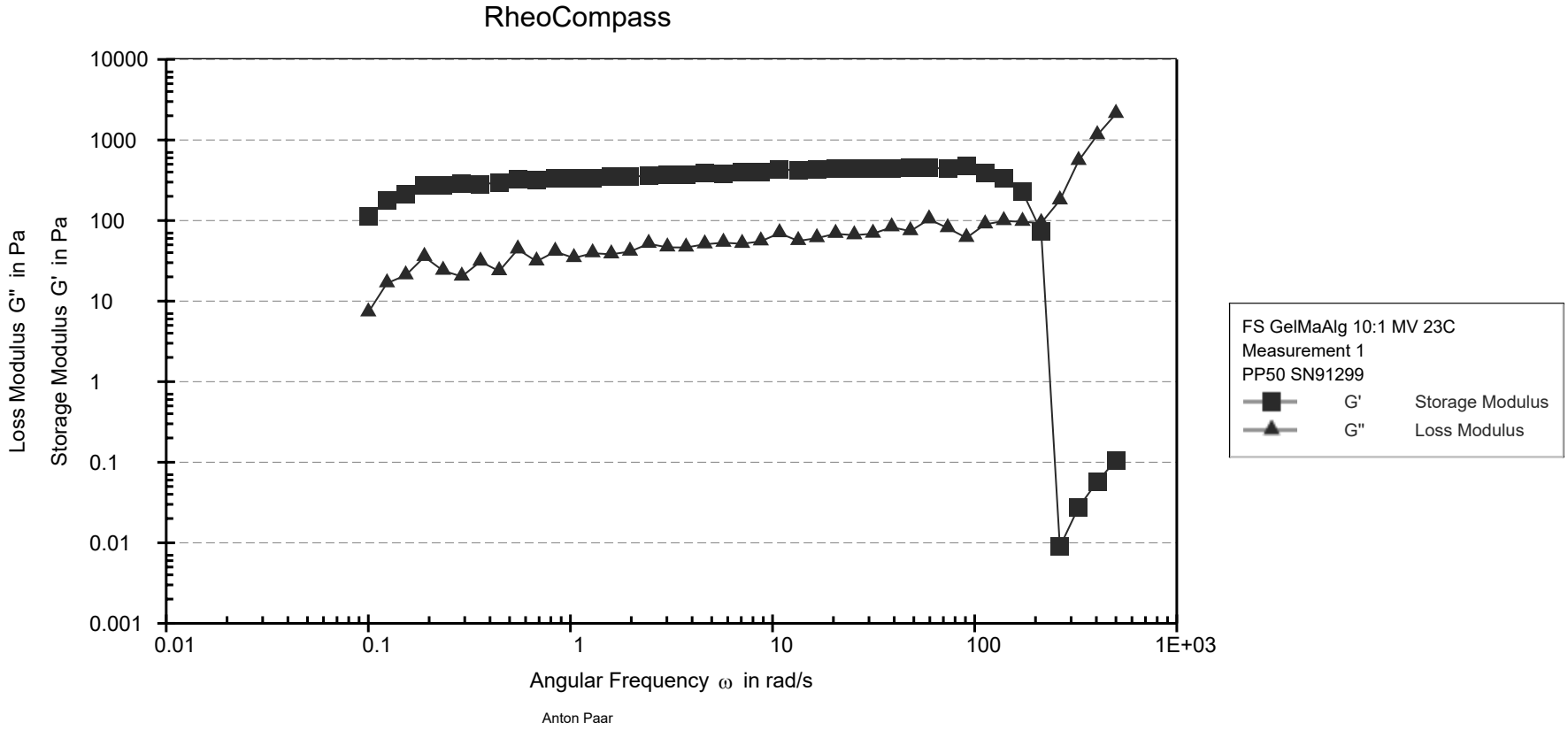
Method description:
To measure storage modulus (G') and loss modulus (G") by varying shear strain from solid to liquid regime. Vary Shear strain (oscillating): 0.01 to 500 % (Ramp Logarithmic). Keep 'frequency' constant at 1 Hz.

Amplitude Sweep of the GelMaAlg 10:1 MV 23C

22	8.73	18.663	196.42	84.207	0.429	0.68521	
23	10.8	23.132	196.6	84.535	0.430	0.84931	
24	13.4	28.639	196.62	84.89	0.432	1.0515	
25	16.5	35.421	196.41	85.177	0.434	1.3005	
26	20.5	43.76	195.94	85.361	0.436	1.6066	
27	25.3	53.976	195.22	85.414	0.438	1.9817	
28	31.3	66.47	194.14	85.372	0.440	2.4405	
29	38.8	81.716	192.71	85.251	0.442	3.0002	
30	48	100.2	190.68	85.038	0.446	3.6788	
31	59.3	122.27	188.13	84.755	0.451	4.4893	
32	73.4	149.1	184.85	84.42	0.457	5.4741	
33	90.9	181.28	180.97	83.785	0.463	6.6558	
34	113	218.84	175.14	83.328	0.476	8.0347	
35	141	258.46	163.02	83.999	0.515	9.4894	
36	175	295.79	146.45	85.041	0.581	10.86	
37	216	294.49	103.64	88.139	0.850	10.812	WMa
38	268	307.54	74.855	87.135	1.164	11.292	
39	331	322.24	51.376	82.579	1.607	11.831	
40	409	336.25	33.514	75.139	2.242	12.345	
41	504	351.25	21.309	66.337	3.113	12.896	

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.

Frequency sweep of the GelMaAlg 10:1 MV 23C



TRIAL

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%

Foldink

Frequency sweep of the GelMaAlg 10:1 MV 23C

FS GelMaAlg 10:1 MV 23C, Measurement 1, Interval 1

Point No.	Angular Frequency	Complex Viscosity	Storage Modulus	Loss Modulus	Loss Factor	Shear Strain	Shear Stress	Torque	Status
№	ω	|η*|	G'	G''	tan(δ)	γ	τ	M	Stat
	[rad/s]	[Pa·s]	[Pa]	[Pa]	[1]	[%]	[Pa]	[mN·m]	
1	0.1	1131.5	112.92	7.2628	0.064	0.0164	0.018609	0.00068325	M- ,WMa
2	0.124	1432.6	176.47	16.677	0.095	0.0667	0.11826	0.004342	WMa
3	0.153	1392.9	212.21	20.935	0.099	0.101	0.21492	0.0078909	
4	0.189	1450.1	272.39	35.4	0.130	0.0879	0.24152	0.0088675	WMa
5	0.234	1172	273.63	23.848	0.087	0.11	0.30217	0.011094	WMa
6	0.29	994.54	287.69	20.187	0.070	0.091	0.26258	0.0096408	WMa
7	0.359	788.16	281.09	30.982	0.110	0.102	0.28707	0.01054	
8	0.444	672.16	297.46	23.556	0.079	0.0962	0.28719	0.010544	WMa
9	0.549	605.58	329.73	43.849	0.133	0.0894	0.29738	0.010918	WMa
10	0.68	466.74	315.67	31.13	0.099	0.102	0.32216	0.011828	
11	0.841	399.22	333.18	41.128	0.123	0.0946	0.31765	0.011663	
12	1.04	321.15	332.38	34.299	0.103	0.1	0.33565	0.012324	
13	1.29	263.22	336.57	39.309	0.117	0.0996	0.33754	0.012393	
14	1.59	221.89	351.37	38.134	0.109	0.0978	0.3455	0.012685	
15	1.97	179.8	351.95	41.184	0.117	0.0989	0.35038	0.012864	
16	2.44	148.67	358.84	51.49	0.143	0.0985	0.35709	0.013111	
17	3.02	122.84	367.69	46.461	0.126	0.098	0.36335	0.01334	
18	3.73	100.31	371.57	46.319	0.125	0.0975	0.36526	0.013411	
19	4.62	84.303	386.07	50.739	0.131	0.0989	0.38525	0.014144	
20	5.71	67.279	380.8	53.143	0.140	0.102	0.39033	0.014331	
21	7.07	56.518	396.32	51.445	0.130	0.1	0.39958	0.014671	

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 GelMaAlg 10:1 MV 23C

22	8.75	46.506	403.12	55.237	0.137	0.0999	0.40646	0.014923	
23	10.8	40.819	436.33	69.806	0.160	0.0935	0.4131	0.015167	WMa
24	13.4	31.365	416.38	55.824	0.134	0.101	0.42608	0.015644	
25	16.6	26.173	429.5	60.55	0.141	0.0996	0.43204	0.015863	
26	20.5	21.669	439.01	68.489	0.156	0.0996	0.44233	0.01624	
27	25.4	17.636	442.56	65.79	0.149	0.1	0.44954	0.016505	
28	31.4	14.386	446.32	68.76	0.154	0.101	0.45642	0.016758	
29	38.8	11.593	442.65	82.593	0.187	0.101	0.45472	0.016695	
30	48.1	9.587	454.74	73.96	0.163	0.0999	0.46041	0.016904	
31	59.5	7.8812	457.03	103.56	0.227	0.0968	0.45383	0.016663	WMa
32	73.6	6.0367	436.73	80.668	0.185	0.0996	0.44246	0.016245	
33	91	5.2667	475.52	61.009	0.128	0.0967	0.46344	0.017015	WMa
34	113	3.5456	389.13	89.715	0.231	0.1	0.39921	0.014657	
35	139	2.5251	337.78	98.653	0.292	0.1	0.35308	0.012964	
36	172	1.4297	226.78	96.651	0.426	0.0999	0.24634	0.0090446	
37	213	0.55627	73.593	93.1	1.265	0.0997	0.11838	0.0043462	
38	264	0.6761	0.0089234	178.47	20000.000	0.1	0.17864	0.0065588	ME-,taD
39	327	1.6858	0.027529	550.59	20000.000	0.0999	0.55026	0.020203	ME-,taD
40	404	2.8434	0.057451	1149	20000.000	0.1	1.1487	0.042173	ME-,taD
41	500	4.2244	0.10561	2112.2	20000.000	0.0999	2.1111	0.077508	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%

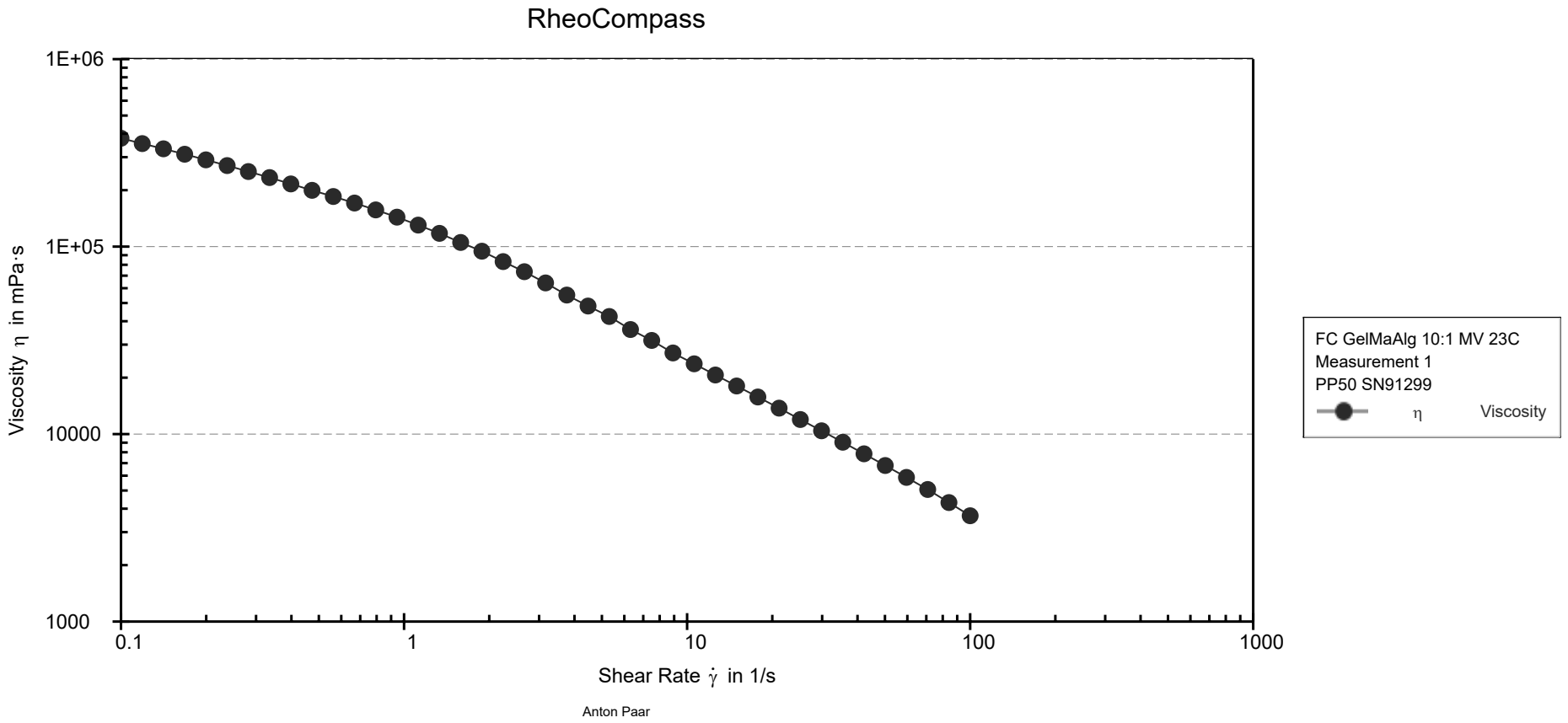
Frequency sweep of the GelMaAlg 10:1 MV 23C

TRIAL

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%

Foldink

Flow curve of the GelMaAlg 10:1 MV 23C



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

Flow curve of the GelMaAlg 10:1 MV 23C

FC GelMaAlg 10:1 MV 23C, Measurement 1, Interval 1

Point No.	Shear Rate	Shear Stress	Viscosity	Torque	Status
№	$\dot{\gamma}$	τ	η	M	Stat
	[1/s]	[Pa]	[mPa·s]	[mN·m]	
1	0.1	37.845	3.7845E+05	1.3895	Sdy,Dy_auto
2	0.119	42.115	3.5435E+05	1.5463	Sdy,Dy_auto
3	0.141	46.951	3.3239E+05	1.7238	Sdy,Dy_auto
4	0.168	52.202	3.1095E+05	1.9166	Sdy,Dy_auto
5	0.2	57.912	2.9025E+05	2.1263	Sdy,Dy_auto
6	0.237	64.156	2.7054E+05	2.3555	Sdy,Dy_auto
7	0.282	70.85	2.5138E+05	2.6013	Sdy,Dy_auto
8	0.335	78.206	2.3347E+05	2.8714	Sdy,Dy_auto
9	0.398	85.964	2.1593E+05	3.1562	Sdy,Dy_auto
10	0.473	94.453	1.9962E+05	3.4679	Sdy,Dy_auto
11	0.562	104.05	1.8504E+05	3.8204	Sdy,Dy_auto
12	0.668	114.13	1.7076E+05	4.1903	Sdy,Dy_auto
13	0.794	124.66	1.5694E+05	4.5771	Sdy,Dy_auto
14	0.944	135.56	1.436E+05	4.9772	Sdy,Dy_auto
15	1.12	146.12	1.3023E+05	5.3649	Sdy,Dy_auto
16	1.33	156.94	1.1769E+05	5.762	Sdy,Dy_auto
17	1.58	166.76	1.0522E+05	6.1228	Sdy,Dy_auto
18	1.88	178.05	94524	6.5372	Sdy,Dy_auto
19	2.24	186.23	83186	6.8375	Sdy,Dy_auto
20	2.66	195.53	73488	7.179	Sdy,Dy_auto
21	3.16	202.45	64020	7.433	Sdy,Dy_auto

Method description:

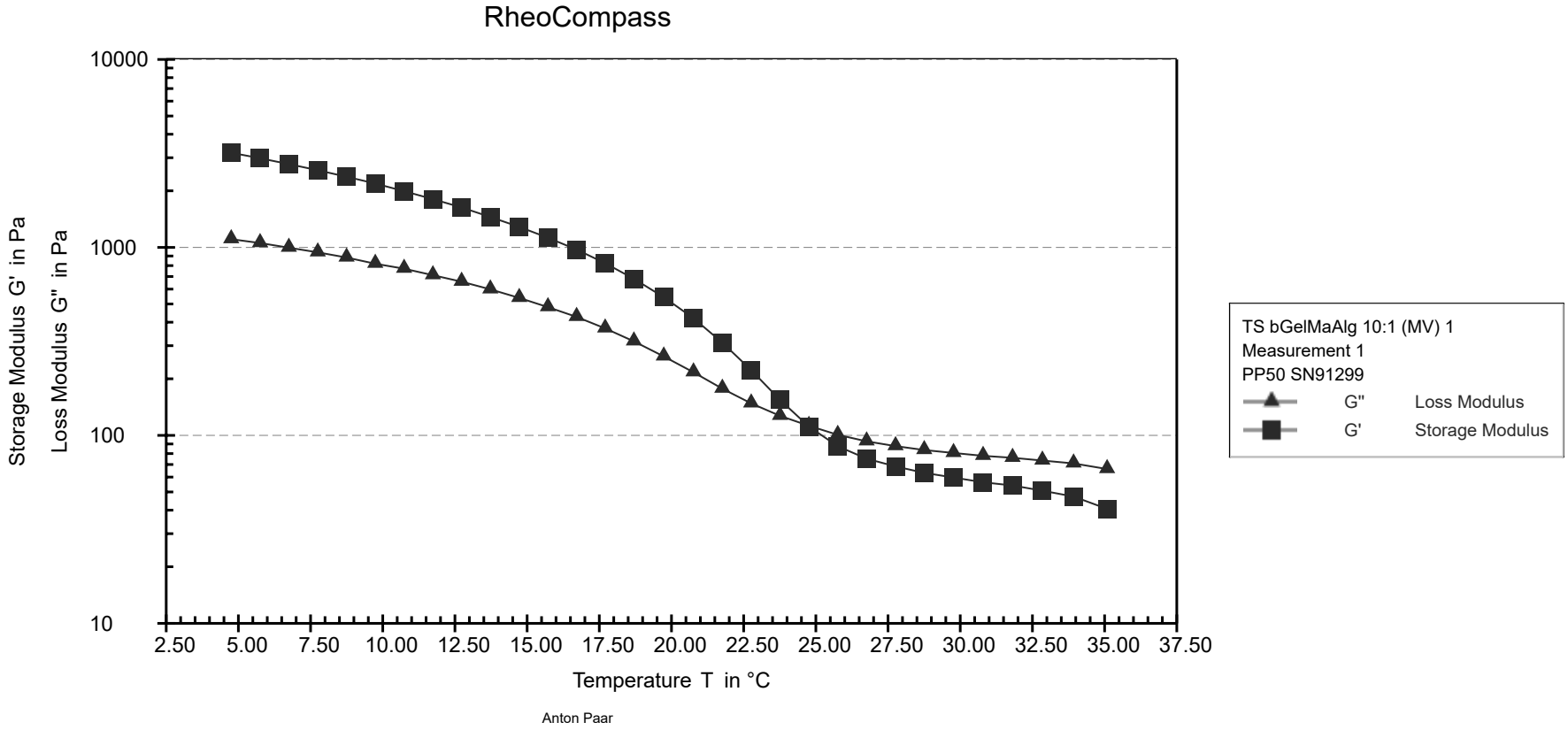
To measure viscosity by varying Shear Rate. Vary Shear Rate: 0.1 to 100 s-1 (Ramp Logarithmic)

Flow curve of the GelMaAlg 10:1 MV 23C

22	3.76	207.26	55146	7.6096	Sdy,Dy_auto
23	4.47	215.26	48192	7.9035	Sdy,Dy_auto
24	5.31	225.02	42386	8.2617	Sdy,Dy_auto
25	6.31	227.9	36119	8.3674	Sdy,Dy_auto
26	7.5	236.88	31588	8.6971	Sdy,Dy_auto
27	8.91	241.38	27084	8.8624	Sdy,Dy_auto
28	10.6	251.07	23702	9.2181	Sdy,Dy_auto
29	12.6	260.14	20662	9.551	Sdy,Dy_auto
30	15	270.11	18052	9.9172	Sdy,Dy_auto
31	17.8	280.47	15771	10.298	Sdy,Dy_auto
32	21.1	290.68	13753	10.673	Sdy,Dy_auto
33	25.1	300.42	11959	11.03	Sdy,Dy_auto
34	29.9	310.85	10412	11.413	Sdy,Dy_auto
35	35.5	321.08	9048.8	11.789	Sdy,Dy_auto
36	42.2	330.98	7848.5	12.152	Sdy,Dy_auto
37	50.1	340.72	6797.9	12.51	Sdy,Dy_auto
38	59.6	349.91	5874.1	12.847	Sdy,Dy_auto
39	70.8	358.51	5063.8	13.163	Sdy,Dy_auto
40	84.1	362.88	4312.6	13.323	Sdy,Dy_auto
41	100	366.75	3667.3	13.465	Sdy,Dy_auto

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

Temperature Sweep of the GelMaAlg 10:1 MV



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

Foldink

Temperature Sweep of the GelMaAlg 10:1 MV

TS mColMaAlg 10:2 MV , Measurement 1, Interval 1

Point No.	Time	Temperature	Storage Modulus	Loss Modulus	Loss Factor	Complex Viscosit	Gap	Normal Force	Torque	Status
№	t	T	G'	G''	tan(δ)	|η*|	d	F_N	M	Stat
	[s]	[°C]	[Pa]	[Pa]	[1]	[mPa·s]	[mm]	[N]	[µN·m]	
1	60.132	35.10	27.129	32.194	1.19	4210.1	1.001	---	15.445	
2	120.000	33.94	27.281	32.782	1.2	4264.9	1.001	---	15.639	
3	180.000	32.86	27.363	33.294	1.22	4309.5	1.001	---	15.822	
4	240.000	31.83	27.076	33.803	1.25	4331	1.000	---	15.897	
5	300.000	30.81	26.97	33.947	1.26	4335.7	1.000	---	15.946	
6	360.000	29.80	27.622	34.789	1.26	4442.1	1.000	---	16.311	
7	420.000	28.78	28.124	35.617	1.27	4538.2	1.000	---	16.689	
8	480.000	27.76	29.415	36.427	1.24	4682.1	1.001	---	17.183	
9	540.000	26.75	30.261	37.217	1.23	4796.7	1.001	---	17.598	
10	600.000	25.76	31.608	38.246	1.21	4961.7	1.001	---	18.205	
11	660.000	24.76	32.974	39.543	1.2	5148.7	1.001	---	18.87	
12	720.000	23.76	35.622	40.873	1.15	5421.7	1.001	---	19.879	
13	780.000	22.76	38.963	42.986	1.1	5801.6	1.001	---	21.246	
14	840.000	21.76	44.657	46.064	1.03	6415.7	1.001	---	23.463	
15	900.000	20.76	53.913	50.243	0.932	7369.5	1.000	---	26.926	
16	960.000	19.76	66.857	55.436	0.829	8685.1	1.000	---	31.68	
17	1020.000	18.76	83.792	62.84	0.75	10474	1.000	---	38.127	
18	1080.000	17.74	114.88	75.037	0.653	13721	1.000	---	49.535	
19	1140.000	16.71	177.42	90.955	0.513	19938	1.001	---	71.662	
20	1200.000	15.71	269.79	115.64	0.429	29353	1.001	---	105.47	
21	1260.000	14.72	381.33	147.49	0.387	40886	1.001	---	147.27	

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

Temperature Sweep of the GelMaAlg 10:1 MV

22	1320.000	13.72	510.4	185.1	0.363	54293	1.001	---	195.99
23	1380.000	12.73	649.87	225.33	0.347	68782	1.001	---	248.96
24	1440.000	11.74	805.77	269.16	0.334	84953	1.001	---	307.66
25	1500.000	10.74	974.74	314.9	0.323	1.0243E+05	1.001	---	371.5
26	1560.000	9.74	1156.5	362.88	0.314	1.2121E+05	1.001	---	440.37
27	1620.000	8.74	1347.4	409.67	0.304	1.4083E+05	1.001	---	512.02
28	1680.000	7.75	1554.8	459.99	0.296	1.6215E+05	1.000	---	589.6
29	1740.000	6.74	1772.6	510.3	0.288	1.8446E+05	1.000	---	671.3
30	1800.000	5.75	1995.5	559.55	0.28	2.0725E+05	1.000	---	754.89
31	1860.000	4.75	2226.6	607.2	0.273	2.3079E+05	1.000	---	840.91

TS bGelMaAlg 10:1 (MV) 1, Measurement 1, Interval 1

Point No.	Time	Temperature	Storage Modulus	Loss Modulus	Loss Factor	Complex Viscosit	Gap	Normal Force	Torque	Status
№	t	T	G'	G''	tan(δ)	|η*|	d	F_N	M	Stat
	[s]	[°C]	[Pa]	[Pa]	[1]	[mPa·s]	[mm]	[N]	[µN·m]	
1	60.000	35.09	40.637	66.203	1.63	7768	1.024	---	28.456	
2	120.000	33.93	47.271	70.918	1.5	8522.9	1.025	---	31.265	
3	180.000	32.85	50.773	73.468	1.45	8930.5	1.025	---	32.762	
4	240.000	31.81	54.138	75.985	1.4	9329.8	1.024	---	34.23	
5	300.000	30.79	56.279	77.84	1.38	9605.4	1.024	---	35.201	
6	360.000	29.77	59.67	80.623	1.35	10030	1.024	---	36.732	
7	420.000	28.75	63.194	83.574	1.32	10478	1.024	---	38.403	
8	480.000	27.76	68.34	87.672	1.28	11116	1.024	---	40.685	
9	540.000	26.76	75.157	92.962	1.24	11954	1.024	---	43.731	
10	600.000	25.76	87.515	100.69	1.15	13341	1.024	---	48.765	

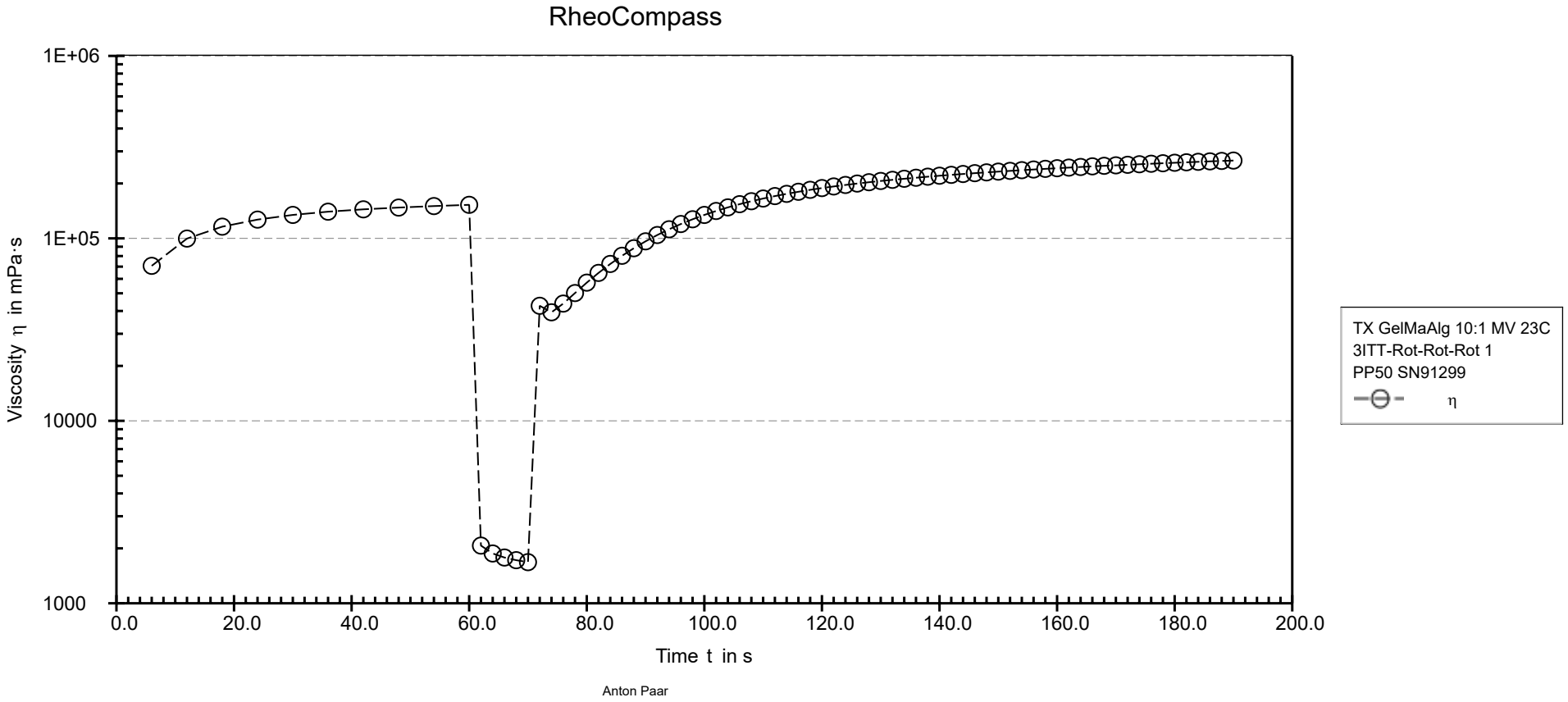
Method description:
Vary temperture from 35 to 5 C keep shear strain constant 1%.

Temperature Sweep of the GelMaAlg 10:1 MV

11	660.000	24.76	111.36	112.48	1.01	15828	1.025	---	57.599
12	720.000	23.76	154.41	127.08	0.823	19998	1.025	---	72.387
13	780.000	22.76	222.44	148.01	0.665	26718	1.025	---	96.479
14	840.000	21.76	311.29	177.21	0.569	35819	1.025	---	129.31
15	900.000	20.76	419.85	216.6	0.516	47243	1.024	---	170.1
16	960.000	19.73	543.39	263.05	0.484	60371	1.024	---	218.29
17	1020.000	18.70	680.5	316.33	0.465	75043	1.024	---	271.89
18	1080.000	17.70	823.8	370.75	0.45	90338	1.024	---	327.82
19	1140.000	16.71	973.63	426.94	0.438	1.0631E+05	1.024	---	386.3
20	1200.000	15.72	1125.4	481.11	0.428	1.2239E+05	1.024	---	445.12
21	1260.000	14.73	1285.7	538.7	0.419	1.394E+05	1.024	---	507.45
22	1320.000	13.73	1451.5	598.19	0.412	1.5699E+05	1.024	---	571.93
23	1380.000	12.73	1631	657.01	0.403	1.7584E+05	1.024	---	640.1
24	1440.000	11.74	1806.5	711.58	0.394	1.9416E+05	1.025	---	708.13
25	1500.000	10.74	1991.2	770.39	0.387	2.1351E+05	1.025	---	778.76
26	1560.000	9.74	2187.2	818.84	0.374	2.3355E+05	1.025	---	852.13
27	1620.000	8.75	2376.1	883.58	0.372	2.5351E+05	1.024	---	925.8
28	1680.000	7.75	2573.7	941.28	0.366	2.7404E+05	1.024	---	1000.8
29	1740.000	6.75	2773.9	996.64	0.359	2.9475E+05	1.024	---	1077.4
30	1800.000	5.75	2980.8	1055	0.354	3.162E+05	1.024	---	1155.1
31	1860.000	4.75	3188.4	1106.2	0.347	3.3749E+05	1.024	---	1233.3

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

Thixotropic Behavior of the GelMaAlg 10:1 MV 23C



TRIAL

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).

Foldink

Thixotropic Behavior of the GelMaAlg 10:1 MV 23C

TX GelMaAlg 10:1 MV 23C, 3ITT-Rot-Rot-Rot 1, Interval 1

Point No. №	Time t [s]	Shear Stress τ [Pa]	Viscosity η [mPa·s]	Torque M [µN·m]	Status Stat
1	6.00	7.0709	70706	259.61	Dy_auto
2	12.00	9.9739	99736	366.19	Dy_auto
3	18.00	11.59	1.159E+05	425.54	Dy_auto
4	24.00	12.674	1.2673E+05	465.31	Dy_auto
5	30.00	13.444	1.3444E+05	493.6	Dy_auto
6	36.00	14.004	1.4004E+05	514.17	Dy_auto
7	42.00	14.425	1.4425E+05	529.62	Dy_auto
8	48.00	14.751	1.4751E+05	541.58	Dy_auto
9	54.00	15.031	1.5032E+05	551.89	Dy_auto
10	60.00	15.268	1.5268E+05	560.57	Dy_auto

TX GelMaAlg 10:1 MV 23C, 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 GelMaAlg 10:1 MV 23C

Point No. №	Time t [s]	Shear Stress τ [Pa]	Viscosity η [mPa·s]	Torque M [µN·m]	Status Stat
1	62.00	207.19	2070.9	7607.1	Dy_auto
2	64.00	187.58	1874.7	6886.9	Dy_auto
3	66.00	178.2	1781.4	6542.7	Dy_auto
4	68.00	172.32	1722.7	6326.6	Dy_auto
5	70.00	168.05	1680.2	6169.9	Dy_auto

TX GelMaAlg 10:1 MV 23C, 3ITT-Rot-Rot-Rot 1, Interval 3

Point No. №	Time t [s]	Shear Stress τ [Pa]	Viscosity η [mPa·s]	Torque M [µN·m]	Status Stat
1	72.00	4.2701	42703	156.78	Dy_auto
2	74.00	3.9335	39337	144.42	Dy_auto
3	76.00	4.3902	43908	161.19	Dy_auto
4	78.00	5.0143	50153	184.1	Dy_auto

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 GelMaAlg 10:1 MV 23C

5	80.00	5.7187	57196	209.96	Dy_auto
6	82.00	6.4657	64663	237.39	Dy_auto
7	84.00	7.2403	72409	265.83	Dy_auto
8	86.00	8.0269	80272	294.71	Dy_auto
9	88.00	8.8277	88280	324.11	Dy_auto
10	90.00	9.6323	96328	353.65	Dy_auto
11	92.00	10.431	1.0432E+05	382.98	Dy_auto
12	94.00	11.216	1.1216E+05	411.8	Dy_auto
13	96.00	11.984	1.1984E+05	439.99	Dy_auto
14	98.00	12.725	1.2726E+05	467.2	Dy_auto
15	100.00	13.442	1.3442E+05	493.51	Dy_auto
16	102.00	14.129	1.4129E+05	518.74	Dy_auto
17	104.00	14.783	1.4783E+05	542.78	Dy_auto
18	106.00	15.397	1.5396E+05	565.3	Dy_aut

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 GelMaAlg 10:1 MV 23C

19	108.00	15.979	1.5978E+05	586.68	Dy_auto
20	110.00	16.534	1.6534E+05	607.04	Dy_auto
21	112.00	17.051	1.705E+05	626.05	Dy_auto
22	114.00	17.538	1.7536E+05	643.91	Dy_auto
23	116.00	18.005	1.8004E+05	661.05	Dy_auto
24	118.00	18.45	1.845E+05	677.39	Dy_auto
25	120.00	18.863	1.8863E+05	692.55	Dy_auto
26	122.00	19.253	1.9253E+05	706.87	Dy_auto
27	124.00	19.623	1.9622E+05	720.47	Dy_auto
28	126.00	19.974	1.9975E+05	733.36	Dy_auto
29	128.00	20.311	2.0312E+05	745.73	Dy_auto
30	130.00	20.634	2.0633E+05	757.57	Dy_auto
31	132.00	20.932	2.0931E+05	768.54	Dy_auto

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 GelMaAlg 10:1 MV 23C

32	134.00	21.216	2.1217E+05	778.96	Dy_auto
33	136.00	21.493	2.1492E+05	789.12	Dy_auto
34	138.00	21.778	2.1777E+05	799.6	Dy_auto
35	140.00	22.047	2.2047E+05	809.47	Dy_auto
36	142.00	22.293	2.2292E+05	818.49	Dy_auto
37	144.00	22.534	2.2532E+05	827.34	Dy_auto
38	146.00	22.768	2.277E+05	835.95	Dy_auto
39	148.00	22.999	2.2998E+05	844.41	Dy_auto
40	150.00	23.219	2.3218E+05	852.49	Dy_auto
41	152.00	23.433	2.3433E+05	860.35	Dy_auto
42	154.00	23.643	2.3643E+05	868.07	Dy_auto
43	156.00	23.847	2.3848E+05	875.56	Dy_auto
44	158.00	24.046	2.4046E+05	882.85	Dy_auto
45	160.00	24.234	2.4234E+05	889.77	Dy_aut

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 GelMaAlg 10:1 MV 23C

46	162.00	24.427	2.4428E+05	896.86	Dy_auto
47	164.00	24.622	2.4621E+05	904.02	Dy_auto
48	166.00	24.818	2.4817E+05	911.2	Dy_auto
49	168.00	24.983	2.4985E+05	917.27	Dy_auto
50	170.00	25.136	2.5136E+05	922.88	Dy_auto
51	172.00	25.307	2.5307E+05	929.16	Dy_auto
52	174.00	25.481	2.5482E+05	935.53	Dy_auto
53	176.00	25.645	2.5646E+05	941.56	Dy_auto
54	178.00	25.805	2.5803E+05	947.43	Dy_auto
55	180.00	25.961	2.5962E+05	953.18	Dy_auto
56	182.00	26.118	2.6117E+05	958.93	Dy_auto
57	184.00	26.272	2.6272E+05	964.57	Dy_auto
58	186.00	26.425	2.6427E+05	970.19	Dy_auto

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 GelMaAlg 10:1 MV 23C

59	188.00	26.567	2.6567E+05	975.43	Dy_auto
60	190.00	26.693	2.6694E+05	980.03	Dy_auto

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).