



TGP3510PT DATA

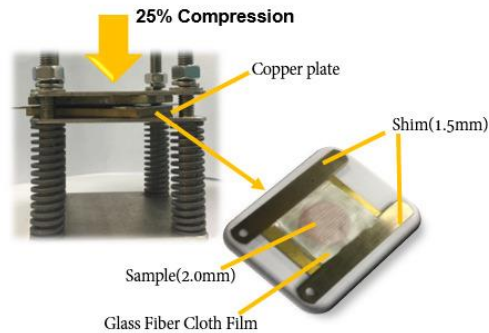
May 21, 2025

Honeywell

WEIGHT LOSS

Test description

- Size of test piece: 1 inch² circle, 2mm thick
- Compression rate: up to 25% (from 2.0 mm to 1.5mm)
- Aging condition: 150°C, 48hrs



Test procedure

- 1) Cut TGP3510PT into the test size
- 2) Weigh test piece and record
- 3) Put the test piece on test jig and compress it into 1.5mm with a shim
- 4) Baking the whole jig into oven under 150°C, 48hrs
- 5) After cooling down to room temperature, open the jig and weigh the test piece again

Test result

Test piece #	Before baking	After baking			
	Weight (g)	weight (g)	weight loss (g)	weight loss ratio(%)	Average (%)
1	4.3872	4.3775	-0.0097	-0.22	-0.27
2	4.3072	4.2914	-0.0158	-0.37	
3	4.3651	4.356	-0.0091	-0.21	

COMPRESSION-DEFLECTION

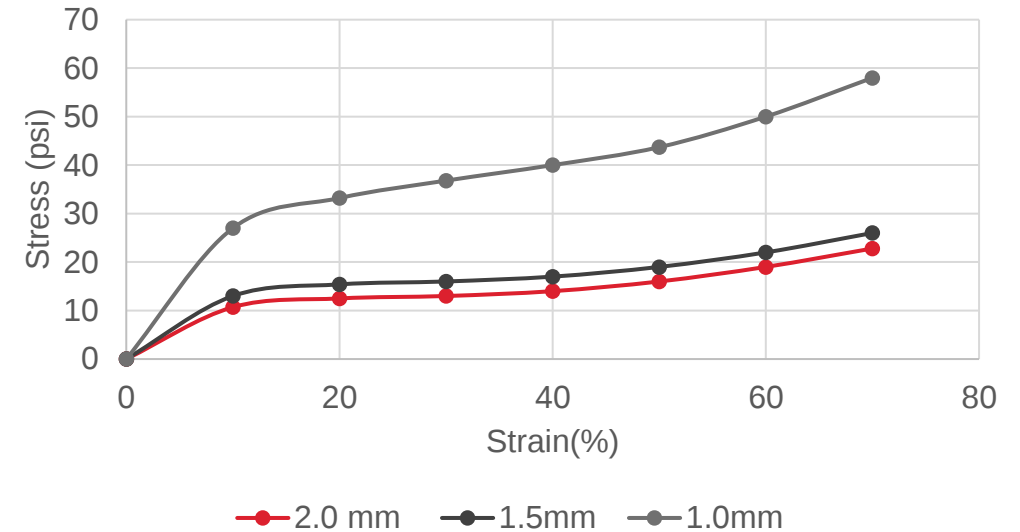
Test description

- Test standard: ASTM D575
- Sample size: 1 inch² circle
- Compression speed: 0.6mm/min



Test result

TGP3510PT Compression-deflection



compression ratio	Stress (psi)		
	2.0mm	1.5mm	1.0mm
10%	10.7	13	27
20%	12.5	15.4	33.2
30%	13	16	36.8
40%	14	17	40
50%	16	19	43.7
60%	19	22	50
70%	22.8	26	58

THERMAL PERFORMANCE

Test description

- Test standard: ASTM D5470
- Sample size: 1.3inch Dia, circle
- Test temperature: 50°C
- TI/TC data was collected



Test equipment
TIM Tester

Sample	Stress (psi)	Thickness (inch)	Thickness (mm)	TC (W/m.K)	TI (in ² .K/W)	TI (cm ² .K/W)
TGP3510PT-1.0mm	10	0.0363	0.922	3.38	0.42	2.73
	30	0.0275	0.699	3.93	0.28	1.77
	50	0.0268	0.681	4.14	0.26	1.65
TGP3510PT-1.5mm	10	0.053	1.346	3.71	0.56	3.62
	30	0.0152	0.386	3.72	0.16	1.03
	50	0.0148	0.376	3.88	0.15	0.97
TGP3510PT-2.0mm	10	0.0559	1.420	3.76	0.59	3.77
	30	0.0155	0.394	3.58	0.17	1.10
	50	0.0152	0.386	3.85	0.16	1.00