



TGP3500PT COMPRESSION & TI

TGP3500PT @ different thickness

November 8, 2022

Honeywell

TGP3500PT COMPRESSION-DEFLECTION

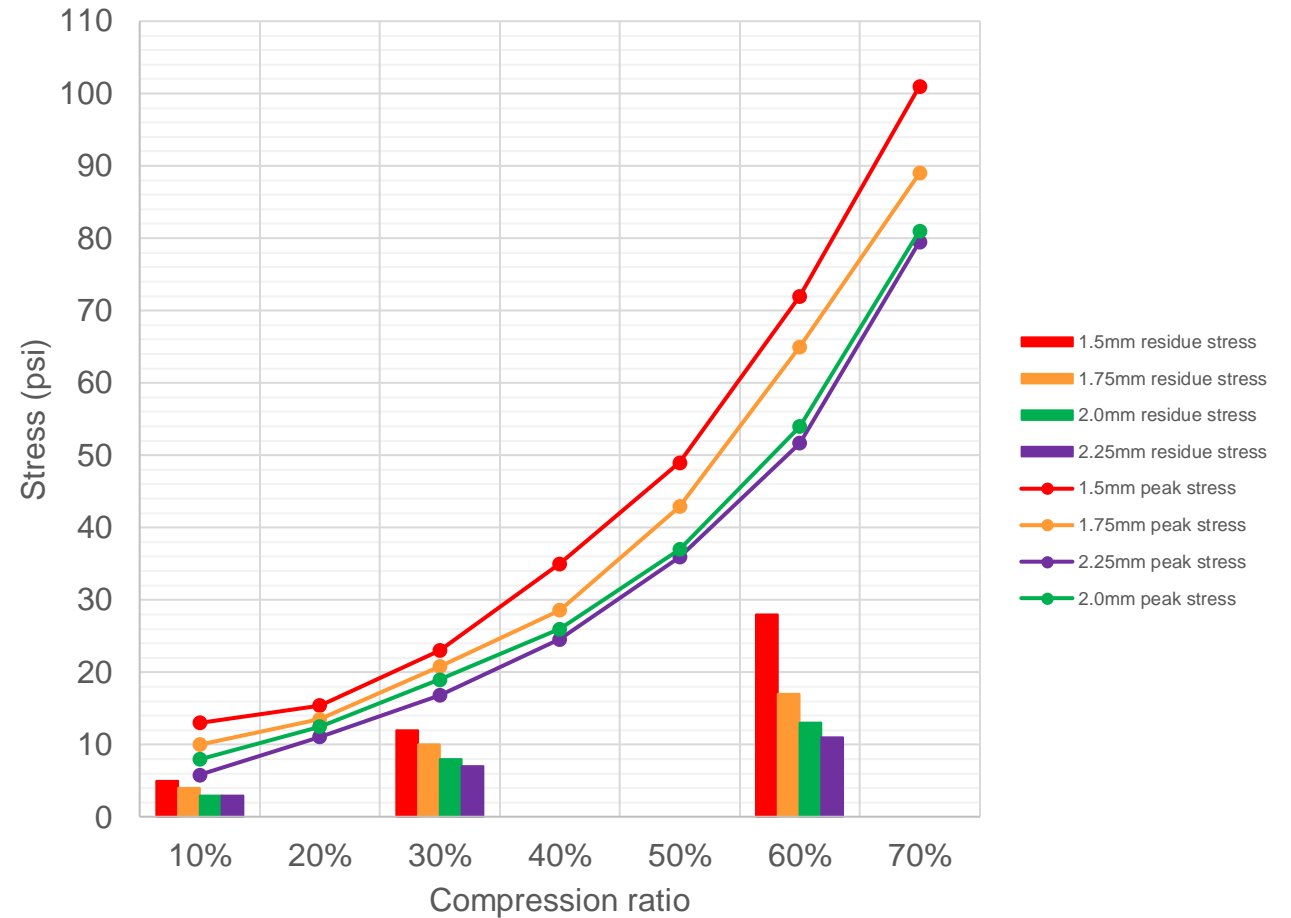
Test description

- Test standard: ASTM D575
- Sample size: 1 inch² square
- Compression speed: 0.6mm/min
- Sample thickness
 - 1.5 mm
 - 1.75 mm
 - 2.0 mm
 - 2.25 mm

compression ratio	Peak stress (psi)				Peak stress (psi)			
	1.50 mm	1.75 mm	2.00 mm	2.25 mm	1.50 mm	1.75 mm	2.00 mm	2.25 mm
10%	13	10.0	8	5.8	5	4	3	3
20%	15.4	13.5	12.5	11.1				
30%	23	20.8	19	16.8	12	10	8	7
40%	35	28.6	26	24.6				
50%	49	42.9	37	35.9				
60%	72	65.0	54	51.7	28	17	13	11
70%	101	89.0	81	79.5				

Test result

TGP3500PT Compression-Deflection vis Thickness



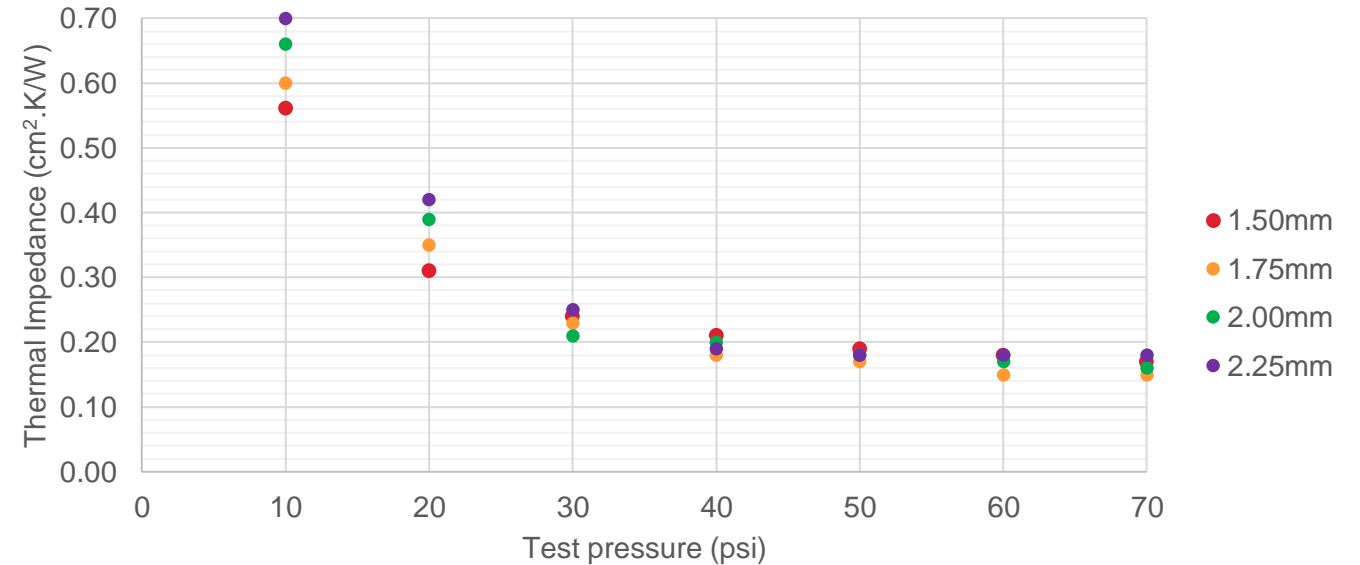
TGP3500PT THERMAL PERFORMANCE VS PRESSURE

Test description

- Test standard: ASTM D5470
- Sample size: 1 inch² square
- Test temperature: 50°C
- Sample thickness
 - 1.5 mm
 - 1.75 mm
 - 2.0 mm
 - 2.25 mm

Test result

TGP3500PT TI vs Pressure @Different Thickness



Pressure (psi)	1.50mm		1.75mm		2.00mm		2.25mm	
	TI (cm ² .K/W)	Thickness (mm)	TI (cm ² .K/W)	Thickness (mm)	TI (cm ² .K/W)	Thickness (mm)	TI (cm ² .K/W)	Thickness (mm)
10	0.56	1.35	0.60	1.41	0.66	1.46	0.7	1.51
20	0.31	0.71	0.35	0.75	0.39	0.81	0.42	0.84
30	0.24	0.54	0.23	0.5	0.21	0.52	0.25	0.57
40	0.21	0.44	0.18	0.43	0.2	0.39	0.19	0.42
50	0.19	0.38	0.17	0.37	0.18	0.35	0.18	0.37
60	0.18	0.36	0.15	0.36	0.17	0.33	0.18	0.36
70	0.17	0.35	0.15	0.33	0.16	0.32	0.18	0.34