

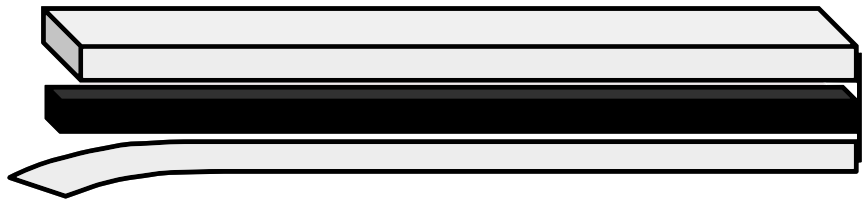
CLD Squares

Physical Specs

- 12" x 12"
- 120 mil thick butyl
- 4 mil thick aluminum
- 1.0 lb per square foot
- Made in the USA

Construction

- Aluminum foil
- Viscoelastic polymer
- Release liner



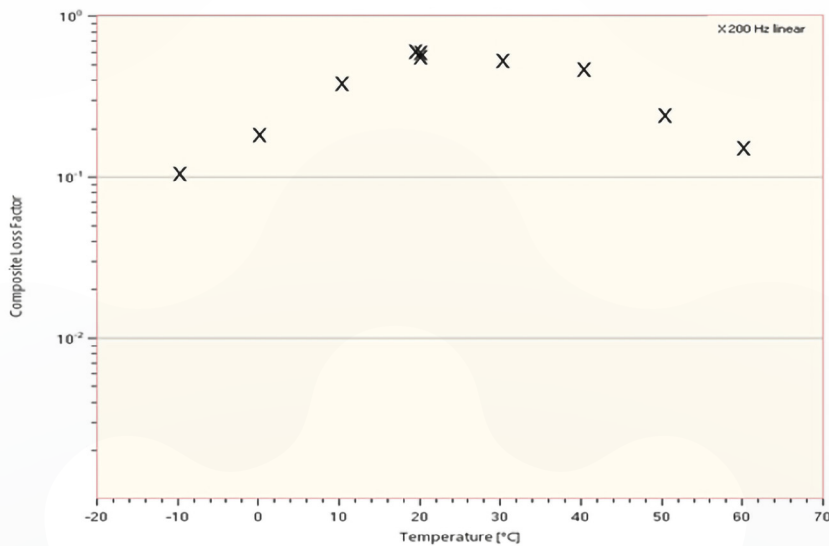
Properties

Color	Facing	Aluminum foil
	Polymer	Black
Specific gravity	1.50	
Hardness (ASTM D-5)	Metric	6.5 – 9.0 mm
	English units	255.9 mils – 354 mils
Shelf life	At least six months when stored at 40°C or less	
Temperature resistance	With stands a bake of one hour at 200°C with no deformation	
Cold flexibility	Can be bent around a 25 mm Mandrell at 30°C with no cracking or loss of adhesion	
Flammability	Meets FMVSS 302, self-extinguishing	
Damping properties (Per SAEJ1637, 0.8 mm test beam)	Composite loss factor (η_c) 20°C @ 200 Hz: 0.7	
Peel strength (90 ° Peel, 300 mm/min)	Oily cold rolled steel	42 N/25 mm
	Oily galvanized steel	35 N/25 mm
	E-coat (ED-11)	65 N/25 mm

Testing thru Ford		APT-200-415	Ford Requirements
3.4	Color	Black	Black
3.5	Solids, min	99.00%	98.00%
3.6	Fogging	>70	>70
3.7	Wait for volume at 23°C	1.50 ± 0.05kg/L	1.3–1.7 kg/l
3.8	3.8 Cone penetration (ASTM D937)		
	3.8.1.1 at 23+/-2C	70	45–75 (internal spec. 80–95)
	3.8.1.2 at -23+/2C, max	60	10 min
3.9	Flow rate (FLTM BV 153-01)	No flow, pass	No flow
3.10	Cold resistance after aging	Pass	No loss of adhesion
3.11	Shear adhesion		
	3.11.1 at 23C+/-2C, min	34.7	30 kpa, min
	3.11.2 at 30C+/-2C	Pass	No loss of adhesion
	3.11.3 at 60+/-2C	10 kpa	10 kpa, min
3.12	Peel adhesion, min	15.0 N/cm	5.5 N/cm
3.13	Compression load	545 N	350–840 N
3.14	Repair oven stability	Pass	No blistering
3.15	Migration staining	Pass	No migration stain
3.16	Quality	Pass	Free from foreign materials
3.17	Storage stability (from date of receipt)	Pass	12 months

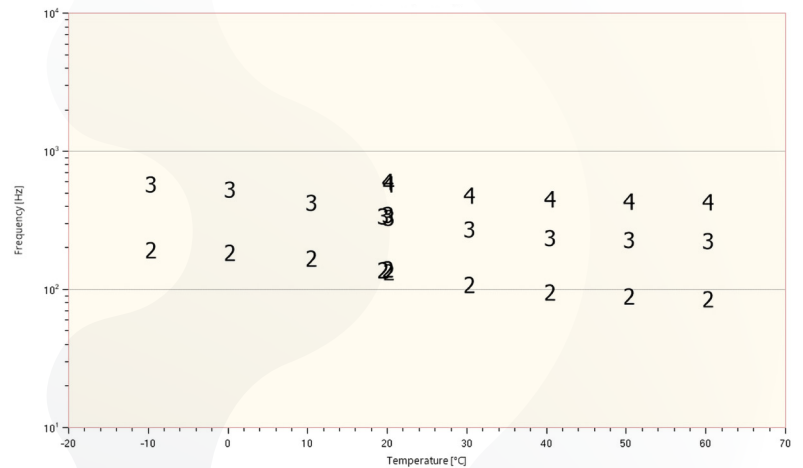
Composite Loss Factor vs. Temperature		
Frequency (Hz)	Temp (°C)	CLF
200	20.3	0.5856
200	10.5	0.3780
200	0.3	0.1813
200	-9.7	0.1039
200	19.6	0.5961
200	30.4	0.5238
200	40.5	0.4619
200	50.4	0.2394
200	60.3	0.1502
200	20.2	0.5519

This test was done starting at room temperature, then going down to freezing, then going back to room temperature, then to high heat, and then back to room temperature. As you can see, ResoNix CLD Squares hold up superbly and do not have degraded performance over temperature swings.

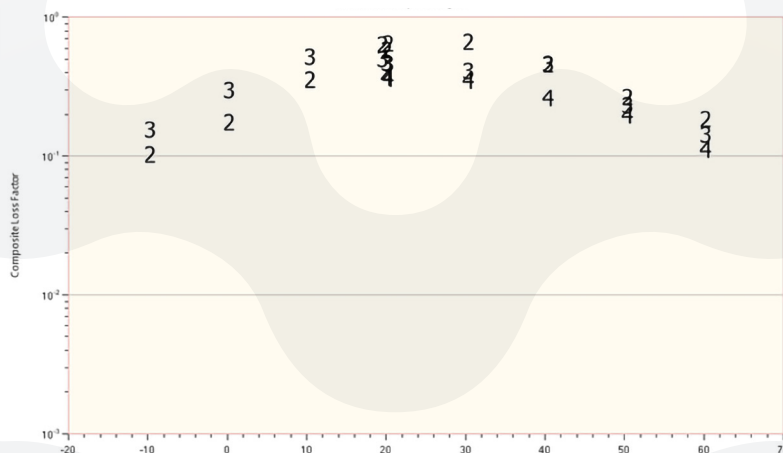


Interpolated Composite Loss Factor vs. Temperature Testing

Frequency vs. Temperature



Composite Loss Factor vs. Temperature



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