

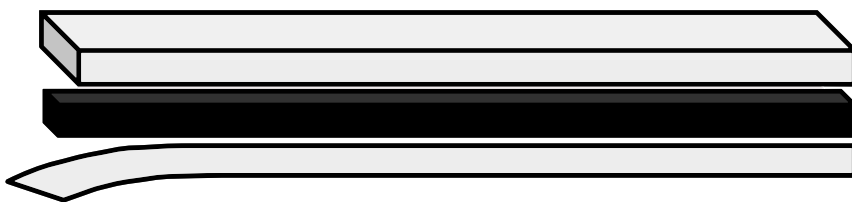
# Mega CLD Squares

## Physical Specs

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

## Construction

- Aluminum foil
- Viscoelastic polymer
- Release liner

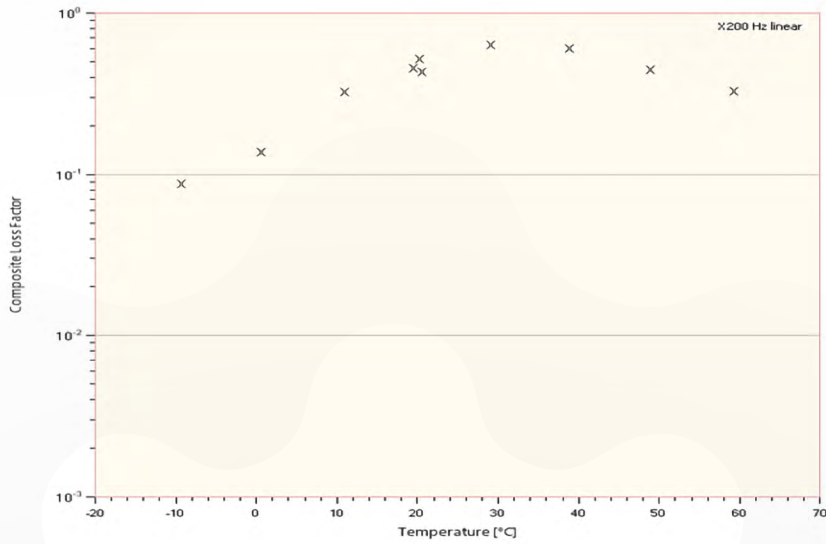


## Properties

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	Withstands 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 ( $\eta_c$ ) 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

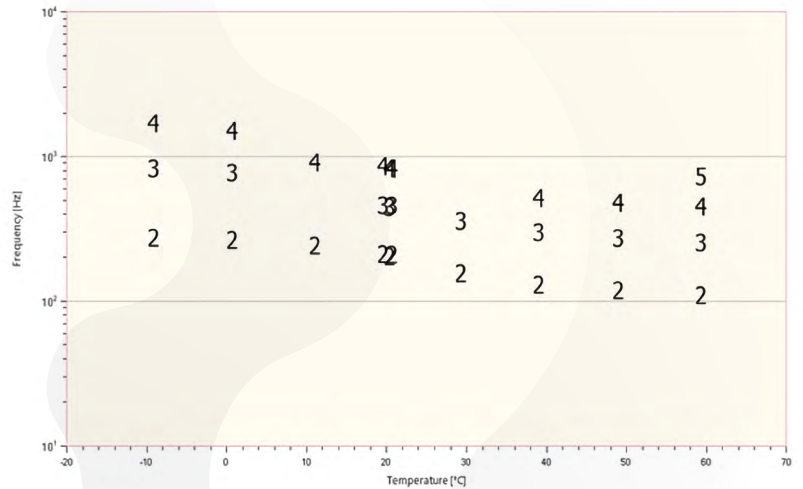
Testing thru Ford		APT-200-415	Ford Requirements
3.4	Color	Black	Black
3.5	Solids, min	99.00%	98.00%
3.6	Fogging	>70	>70
3.7	Wait for volume at 23°C	1.50 ± 0.05kg/L	1.3–1.7 kg/l
3.8	3.8 Cone penetration (ASTM D937)		
	3.8.1.1 at 23+/-2C	70	45–75 (internal spec. 80–95)
	3.8.1.2 at -23+/2C, max	60	10 min
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	20.4	0.456
200	11.1	0.295
200	0.8	0.122
200	-9.1	0.076
200	19.6	0.399
200	29.3	0.637
200	39.1	0.595
200	49.0	0.424
200	59.4	0.317
200	20.7	0.381

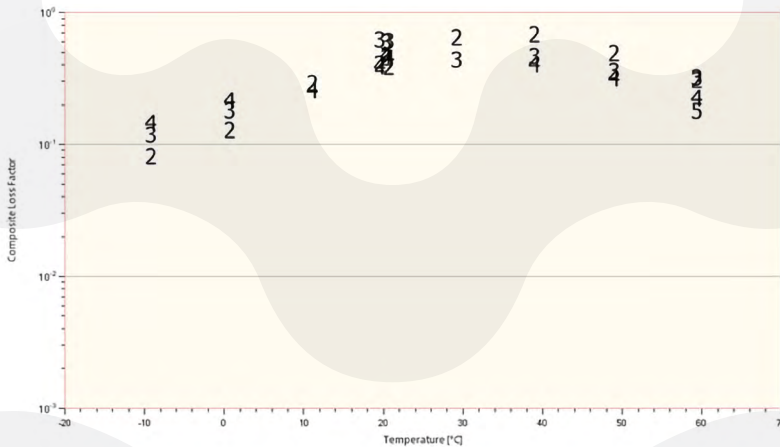


Interpolated Composite Loss Factor Data

Frequency vs. Temperature



Composite Loss Factor vs. Temperature



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