

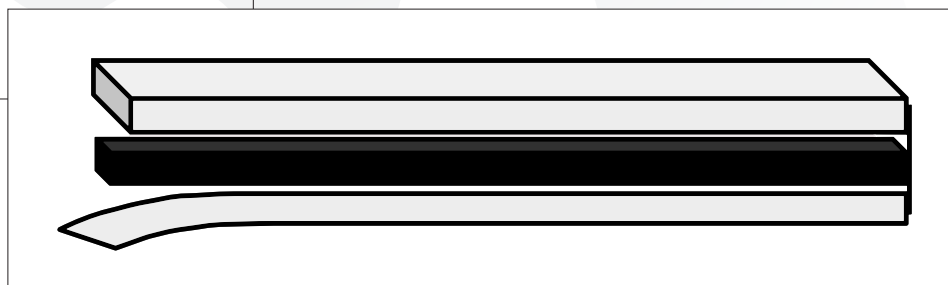
# Mega CLD Squares

## 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

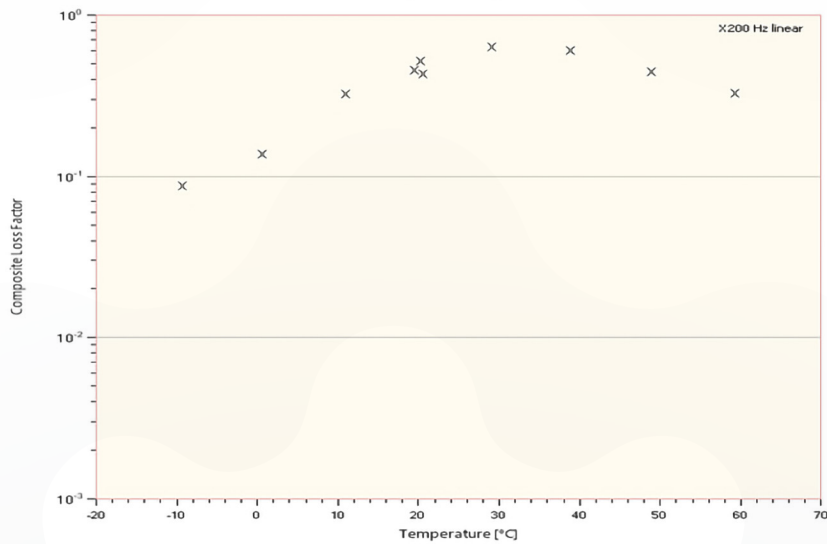


## Properties

|                                                        |                                                                                  |                       |
|--------------------------------------------------------|----------------------------------------------------------------------------------|-----------------------|
| 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<br>(Per SAEJ1637, 0.8 mm test beam) | Composite loss factor ( $\eta_c$ ) 20°C @ 200 Hz: 0.7                            |                       |
| Peel strength<br>(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            |

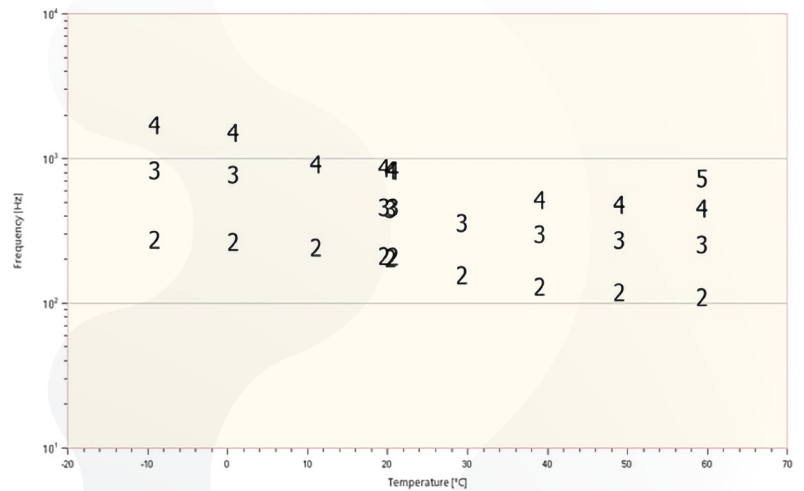
| Testing thru Ford |                                             | APT-200-415     | Ford Requirements            |
|-------------------|---------------------------------------------|-----------------|------------------------------|
| 3.4               | Color                                       | 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<br>(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 |

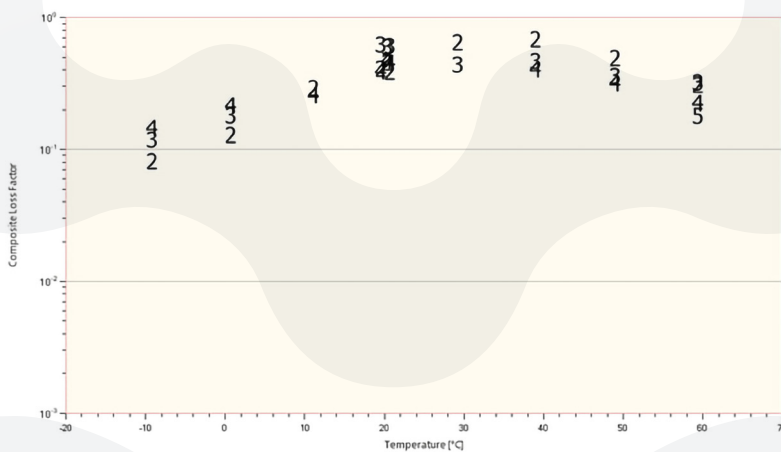


Interpolated Composite Loss Factor Data

Frequency vs. Temperature



Composite Loss Factor vs. Temperature



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