



For optimum tool & die operation, specific characteristics have been specially compounded and processed for **LAMI-FLEX** springs. These qualities enhance their use in the aircraft, automotive, appliance, electrical and electronic industries. These special qualities are:

1. Corrosion resistant
2. Higher pressures
3. Increased durability
4. Unaffected by oil, chemicals, solvents
5. Lighter weight
6. Longer life
7. Abrasion resistant
8. Low noise
9. No sharpnelling
10. Low cost

LAMI-FLEX springs exceed the capability of coiled steel springs in generated forces and strokes in a smaller space. This is accomplished by the non-compressibility and resiliency. Its volume remains constant under force but changes shape, similar to a solid fluid with a memory. Under load, **LAMI-FLEX** springs produce a high, uniform, and continuous counter pressure, returning to original shape when load is released.

PRESSURE RANGE GUIDE

(Force per 1/8" deflection)

Conventional heavy duty steel die spring
- Up to 488 lbs.

LAMI-FLEX Urethane Die Springs & Strippers
- Up to 2593 lbs.

LAMI-FLEX Bars (Pressure Pads)
- Up to 90,000 lbs.

LAMI-FLEX Slabs (Pressure Pads)
- Unlimited

LAMI-FLEX bar or rectangular stock is ideally suited for replacement of rows of springs because of its long, horizontal axis. Characteristics of rubber are surpassed with **LAMI-FLEX** having three times the wear life.

Temperatures, many of our compounds stay flexible at well below -40°F, even though they gradually stiffen as the temperature falls below 0°F. Continuous use above 230°F is not recommended. Our urethanes can be used intermittently up to 250°F.

Heat build-up, due to internal friction (hysteresis effect), is the most common cause of premature failure of urethane. The amount of heat generated is a direct function of effective strokes per hour and/or degree of deflection per stroke. Thus, in selecting springs or pressure pads, minimize the percentage of deflection for longer life - particularly when exceeding 700 strokes per hour.

OPERATING SPEEDS & % OF DEFLECTION

Shorts Runs or Slow Speed - Up to 200 strokes per hour - above 25% of spring height.

Intermittent - Up to 700 strokes per hour - up to 25% of spring height.

Continuous - Up to 12,000 strokes per hour - up to 15% of spring height.

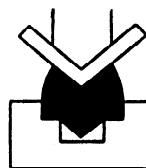
CUTTING OF URETHANE

Bandsawing - Use any type of conventional saw with 4 hook (sharp) carbon blade with raker set.

Lathe Cutting - Use H.S.S. Tool Bits with positive rake of from 5 to 10 degrees.

**Available in 90A or 95A Durometer. Custom sizes and hardness available upon request.*

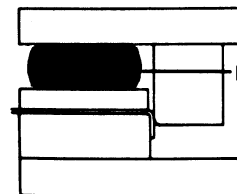
APPLICATIONS



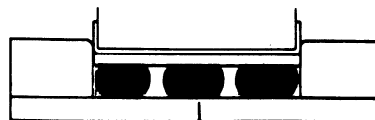
V-FORMING



EMBOSSING



PRESSURE PAD



PRESSURE PAD

WHEN ORDERING PLEASE SPECIFY:

1. QUANTITY
2. THICKNESS OR DIAMETER
3. LENGTH