

# **KINETICS®**

## Flexco Vibration and Isolation Noise Pads

### Model NDM



#### **Description**

Kinetics model NDM Flexco Vibration and Isolation Noise Pads are a cured homogeneous blend of ozone-resistant rubber elastomer and high-strength random synthetic fiber cords. The pad material exhibits uniform behavior in all directions which makes it suitable for the support of heavy structural bearing loads. The pads are capable of being statically loaded up to 2000 psi (141 kg/cm<sup>2</sup>) and dynamically loaded up to 1000 psi (70 kg/cm<sup>2</sup>) for shock application. An optional oil-resistant pad coating is available.

#### **Application**

Kinetics model NDM Flexco Pads are recommended for noise, vibration, and shock control applications which require a pad-type isolator. They are to be used where the psi load on the pad exceeds the load-carrying capability of our model KIP Fiberglass Isolation Pads

Typical applications of model NDM Flexco Pads include use with foundry, steel mill and other high load equipment. NDM Flexco Pads are also used to support load-bearing walls and beneath building foundations in order to reduce transmitted noise, shock, and vibration.

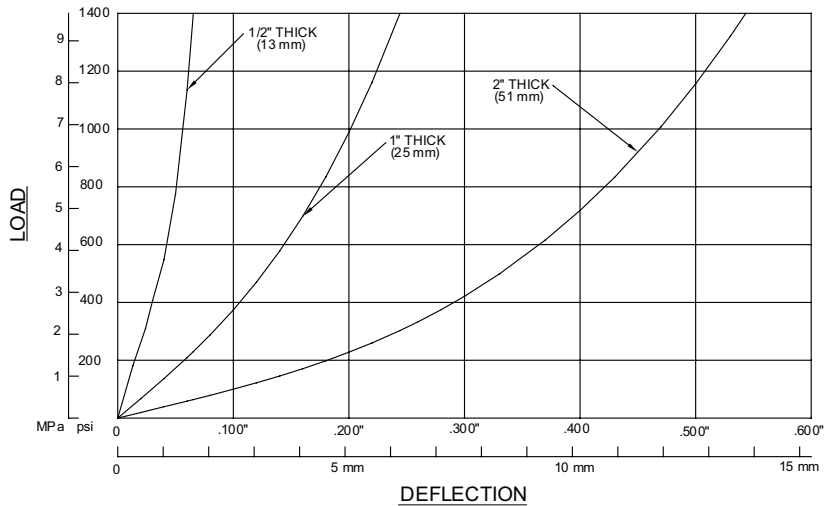
#### **Specifications**

Isolation pads shall be a homogeneous blend of ozone-resistant rubber elastomer and high-strength random synthetic fiber cords cured together to form a durable material with uniform behavior in all directions suitable to support isolated equipment loads.

Isolation pads shall conform to the specified ASTM and other material test requirements in all directions perpendicular to the pad's thickness. Isolation pads shall be of the size and thickness specified or shown by the contract drawings. Unloaded thickness tolerance shall be within 15% or  $\pm 1/16$  inch, (2 mm) whichever is greater.

Compressive stress on the isolation pad shall be limited to 2000 psi (141 kg/cm<sup>2</sup>) for static loading and 1000 psi (70 kg/cm<sup>2</sup>) for shock or vibration applications. Technical specifications for the isolation pad material shall be as tabulated.

Isolation pad shall be Model NDM by Kinetics Noise Control, Inc.



## Product Characteristics

|  |                                     |
|--|-------------------------------------|
| 1. Hardness (Shore A)  | 75 (±5)                             |
| 2. Compression   | 8,000 psi (562 kg/cm <sup>2</sup> ) |
| a. Minimum ultimate  | 40%                                 |
| b. Initial minimum cracking stain*   |                                     |
| 3. Shear Modulus (G)   | 265 psi (19 kg/cm <sup>2</sup> )    |
| a. At 70°F (21°C) for a uniform compressive stress of 1,000 psi and a shear strain of 50% (dh/t x 100) where both bearing surfaces contact smooth concrete | (±80 psi)                           |
| b. G constant in all directions parallel to the bearing plane  |                                     |
| 4. Tensile Strength* (ASTM D412, DieC)   | 1,000 psi (70 kg/cm <sup>2</sup> )  |
| 5. Tear Strength* (ASTM D624, DieB)  | 400 lb/in. min. (70 N/mm)           |
| 6. Heat Aging (ASTM D573)  |                                     |
| a. Change in tensile strength  | ±25% max.                           |
| b. Change in elongation  | ±25% max.                           |
| c. Change in hardness  | 10 point max.                       |
| 7. Ozone Resistance  |                                     |
| a. After 50 hours at 100°F (38°C) in an ozone concentration of 80 pphm-tear strength   | 300 lb/in. min. (53 N/mm)           |
| 8. Oil Swell (increase in vol.) (ASTM D471)  | 120% max.                           |

\*10% Variation will be allowed.



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