



## Technical Data Sheet

### Harkness Industries MP 700

#### Polyurethane Composition

MP 700 is a high performance polyester based urethane. This polyurethane is formulated to give an excellent balance of properties for a wide variety of applications including springs, scraper blades, die cutting pads, bumpers, chute liners, wheels, tires, and many more.

#### Physical Properties

|   |             |
|---|-------------|
| Shore A Hardness .....                              | 70 +/- 5    |
| 100% Modulus, psi (Mpa) .....                       | 310 (2.2)   |
| 300% Modulus, psi (Mpa) .....                       | 850 (5.8)   |
| Tensile, psi (Mpa) .....                            | 4800 (32.8) |
| Elongation, % .....                                 | 500%        |
| Tear Strength, Split (ASTM D-470) pli, (kN/m) ..... | 55 (9.5)    |
| Tear Strength, Die C (ASTM D-624) pli, (kN/m) ..... | 240 (41.8)  |
| Tear Strength, Die B (ASTM D-624) pli, (kN/m) ..... | 215 (37.6)  |
| Compression Set % .....                             | 12          |
| 22 hours @ 158°F (70°C), Method B                   |             |
| Bell Brittle Point, °F (°C) .....                   | - 70 (-57)  |
| Tabor Abrasion, H-18 100 gm Load                    |             |
| Average Loss / 1000 cycles, grams .....             | 0.040       |
| Specific Gravity .....                              | 1.26        |



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