

PHYSICAL PROPERTIES

- **Composition**
– high grade liquid cast polyurethane.
- **Hardness** – 82-85 Durometer (Shore A).
- **Bashore Rebound** – 38%.
- **Elongation at Break** – 570% or more.
- **Tensile Strength** – 6000-6200 psi.
- **Tear Strength** – 500 pli. min.
- **Abrasion Resistance**
– 5-10 times ordinary rubber.
- **Temperature Range** – -50° to +175° F intermittent; 0° to 150°F continuous. Not damaged by occasional steam cleaning.

For help selecting the best polyurethane tread type for your application, see the Wheel Performance Characteristics chart on pages 18 & 19.

OPTIONAL EXTRAS (more help on page 12)

- **Tapered Roller Bearing Seals.**
- **Keyways, and/or set screws**
– for locking wheels on shaft (plain bore).
- **Special Hub Length**
– hubs can be cut to provide shorter length, spacer washers furnished to increase length.

The Poly-Soft® is formulated for a quieter operation and greater resistance to foreign objects and debris (F.O.D.). As the name implies, Poly-Soft® wheel tread hardness measures 82-85D (Shore A scale) vs. the harder Duralast® 90-95D (Shore A).

The livelier material cushions the load thereby reducing vibration on the load resulting in a quieter ride and less wear and tear on the caster and cargo. In addition, the new urethane has been engineered to repel steel chips, nuts, bolts, pins, etc. and takes on "super ball"-type properties that offer an energized wheel. The newly formulated wheel has found popularity among automotive plants and those customers wanting to lower factory noise levels, and improve floor protection.

Poly-Soft® wheels are also available PRONTO® with precision ball bearings in most forged steel and cold forged casters.

The chart below offers our most popular sizes, but this soft poly tread can also be molded to Hamilton's other standard cast iron, forged steel, and/or aluminum centers in finished sizes ranging from 3¼" to 20" in diameter. Consult the factory for pricing and availability.



#W-620-SPB-1/2



To order, add bearing size to Hamilton number.
Example: W-620-SPB-½.

FEATURED WHEEL BEARINGS



Precision Ball Bearings: double sealed, maintenance free, superior rollability aids manual applications, not recommended if shock loading is prevalent.

Tapered Roller Bearings: best for most severe heavy duty and power-towed applications.

★ = same day/next day PRONTO® shipment.

SP Series Selection Table 3YR = 3 Year Warranty applies

| Dia. | Face | Hub Length♣ | Cap. Lbs. | Precision Ball Bearings | | Tapered Roller Bearings | | Hub Outside Dia. | Wt. Lbs. |
|------|------|-------------|-----------|------------------------------|---------------|-----------------------------|--------------|------------------|----------|
| | | | | Hamilton Model No. | Bearing Size* | Hamilton Model No. | Bearing Size | | |
| 4 | 2 | 2¼ | 600 | ★W-420-SPB-½ ^{3YR} | ½ | X | X | 1½ | 4 |
| | 1½ | 1¾ | 560 | W-515-SPB-½ ^{3YR} | ½ | X | X | 2¼ | 3 |
| 5 | 2 | 2¼ | 840 | ★W-520-SPB-½ ^{3YR} | ½ | W-520-SPT-¾ ^{3YR} | ¾ | 2¼ | 4½ |
| | 1½ | 1¾ | 680 | W-615-SPB-½ ^{3YR} | ½ | W-615-SPT-¾ ^{3YR} | ¾ | 2¼ | 4½ |
| 6 | 2 | 2¼ | 960 | ★W-620-SPB-¾ ^{3YR} | ½-¾ | W-620-SPT-¾ ^{3YR} | ¾ | 2¼ | 5½ |
| | 2½ | 3¼ | 1300 | W-625-SPB-¾ ^{3YR} | ¾ | W-625-SPT-¾ ^{3YR} | ¾-1-1¼ | 2¾ | 10¼ |
| | 3 | 3¼ | 1800 | ★W-630-SPB-¾ ^{3YR} | ¾ | W-630-SPT-¾ ^{3YR} | ¾-1-1¼ | 2¾ | 12 |
| 8 | 2 | 2¼ | 1200 | ★W-820-SPB-¾ ^{3YR} | ½-¾ | W-820-SPT-¾ ^{3YR} | ¾ | 2¾ | 8½ |
| | 2½ | 3¼ | 1600 | W-825-SPB-¾ ^{3YR} | ¾ | W-825-SPT-¾ ^{3YR} | ¾-1-1¼ | 2¾ | 16 |
| | 3 | 3¼ | 2000 | ★W-830-SPB-¾ ^{3YR} | ¾ | W-830-SPT-¾ ^{3YR} | ¾-1-1¼ | 2¾ | 16½ |
| 10 | 2½ | 3¼ | 2000 | W-1025-SPB-¾ ^{3YR} | ¾ | W-1025-SPT-¾ ^{3YR} | ¾-1-1¼ | 3 | 15 |
| | 3 | 3¼ | 2400 | ★W-1030-SPB-¾ ^{3YR} | ¾ | W-1030-SPT-¾ ^{3YR} | ¾-1-1¼ | 3 | 20½ |
| 12 | 3 | 3¼ | 2800 | ★W-1230-SPB-¾ ^{3YR} | ¾ | W-1230-SPT-¾ ^{3YR} | ¾-1-1¼ | 3½ | 38 |

♣ Precision Ball Bearings include top hat spanners that add ¼" to the published hub length.
* The bearing size represents the inside diameter of the top hat bushing (included).

THREE YEAR WARRANTY



The Poly-Soft® Series (SP) is backed by Hamilton's Three Year Product Warranty.