



W-406-PSE

**SOLID ELASTOMER
TREAD SYMBOL "SE"[™]
DUROMETER - SHORE 55 "D"**

- Temperature Ranges -40°F to 230°F
- Resistant to Wide Range of Chemicals.
- A must for tow line applications.
- Extraordinarily easy to push.
- Shows minimal wear in extended use.
- Shock absorbing and extremely quiet.
- Resists abrasion and many hazardous chemicals.
- Displays extremely low heat build-up in continuous use.
- No maintenance required for precision bearings.
- No flat spotting.

ROLLABILITY TESTS WITH DARCOR 'SE'[™] vs THE COMPETITION

Tests were conducted using a platform truck equipped with two swivel and two rigid 6 x 2 casters loaded with a total of 2150 pounds (537 per caster). The effort required to start and maintain the truck in motion was measured. The swivelling test was conducted by aligning the two swivel casters at 90° to the direction of travel.

Each test was conducted three times and the results averaged. Variations of twenty percent were common. The greatest variation was experienced when the forces required were greater than eighty pounds due to the physical effort required. All tests were conducted manually with appropriate force gauges, and roller bearings in the wheel.

The ranking of the various wheels gave the greatest weight to starting and rolling. It was felt that swivelling could be affected by the shape of the tread and would not be as valid an indication of performance.

TEST RESULTS

RANK	MANUFACTURER & TYPE OF WHEEL	HARDNESS SHORE D	LOAD LBS	START LBS	ROLL LBS	SWIVEL LBS
#1	DARCOR Solid Wheel – SE [™]	55 ^D	2150	16	11	65
#2	DARCOR NEOPRENE	60-65 ^A	2150	26	24	115
#3	DARCOR Cast Iron Core – Cast Urethane	55	2150	34	25	120
#4	Competitor #1 Aluminium Core-Moulded Wheel	58	2150	35	25	130
#5	Competitor #2 Solid Wheel	60	2150	38	26	80
#6	Competitor #3 Thermoplastic Core – Thermoplastic Rubber	67 ^A	2150	43	27	117
#7	DARCOR Solid Wheel – Hard Rubber	78 ^D	2150	44	33	66
#8	Competitor #4 Aluminium Core – Cast Urethane	40-100	2150	44	38	145
#9	Competitor #5 Thermoplastic Core – Thermoplastic Urethane	50-60	2150	58	53	130
#10	Competitor #6 Thermoplastic Core – Thermoplastic Urethane	40-70	2150	63	49	130
#11	Competitor #7 Solid Wheel – Cast Urethane	60	2150	66	52	135
#12	Competitor #8 Aluminium Core – Thermoplastic Urethane	60	2150	120	90	150

the "SE"[™] WHEEL, is a proprietary blend of elastomers and other constituents to produce a wheel which is superior in performance to conventional urethane, hard rubber and Phenolic wheels.

WHEEL DIAMETER	TREAD WIDTH	LOAD CAPACITY	BALL BEARING	PRECISION SEALED BALL BEARING	BORE SIZE	HUB LENGTH	USED IN CASTER SERIES
2-1/2"	1-1/4"	300	W-62.5-XSE		3/8"	1-1/2"	60
3"	1-3/8"	500		W-73-PSE	3/8"	1-3/4"	70
	2"	900		W-403-PSE	1/2"	2-5/16"	400
3-1/2"	1-1/4"	350	W-63.5-XSE		3/8"	1-1/2"	60
4"	1-3/8"	600		W-74-PSE	3/8"	1-3/4"	70
	2"	1000		W-404-PSE	1/2"	2-5/16"	400
5"	1-3/8"	700		W-75-PSE	3/8"	1-3/4"	70
	2"	1000		W-405-PSE	1/2"	2-5/16"	400
	2-1/2"	1350		W-805-PSE	3/4"	2-3/4"	700/800
6"	1-3/8"	750		W-76-PSE	3/8"	1-3/4"	70
	2"	1100		W-406-PSE	1/2"	2-5/16"	400
	2-1/2"	1500		W-806-PSE	3/4"	2-3/4"	700/800
8"	2"	1200		W-408-PSE	1/2"	2-5/16"	400
	2-1/2"	1650		W-808-PSE	3/4"	2-3/4"	700/800
10"	2-1/2"	1800		W-810-TSE	3/4"	2-3/4"	700/800

**SOLID ELASTOMER EXTRA WEIGHT
TREAD SYMBOL "SX"
DUROMETER - SHORE 63 "D"**

- Withstand a 20% higher load and reduced swivelling and rolling forces than SE
 - Temperature Ranges -40°F to 230°F
 - Extraordinarily easy to push.
 - Shows minimal wear in extended use.
 - Shock absorbing and extremely quiet.
- Resists abrasion and many hazardous chemicals.
- Displays extremely low heat build-up in continuous use.
 - No maintenance required for precision bearings.
 - No flat spotting.



W-75-H

WHEEL DIAMETER	TREAD WIDTH	LOAD CAPACITY	BALL BEARING	PRECISION SEALED BALL BEARING	BORE SIZE	HUB LENGTH	USED IN CASTER SERIES
5"	2"	1200		W-405-PSX	1/2"	2-5/16"	400
6"	2"	1300		W-406-PSX	1/2"	2-5/16"	400
8"	2"	1400		W-408-PSX	1/2"	2-5/16"	400