

## Rollers and Bumpers

All of our rollers and bumpers are designed to protect the delicate, fragile, heavy and the unusual. From conveyors, guides and supports, to machines and assembly operations. Our rollers and bumpers are rugged, wear resistant and smooth, useful for literally thousands of applications. They can be used on conveyors, belt idlers, racks, shock cushioners, stamping-die part guides and supports, carts and wagons.

We offer mini-solid, solid, self-cleaning finned rollers, and Durasoft® rollers, as well as round, rectangular, square and custom bumpers. Our rollers are moulded from black neoprene, white nitrile, or polyurethane. All styles are offered in various sizes and durometers. A standard selection of four different mountings is available to meet almost any application requirement. They can be designed into machines and assembly operations anywhere you need protection for parts movement.



Durasoft rollers provide the compliance, ("flex") for firm, yet non damaging pressure to work-in conveyance, fixturing, assembly and materials handling operations.



Polyurethane rollers are more rugged and wear resistant than conventional rollers. They are heavy duty, cut resistant and ideal for harsh manufacturing environments.



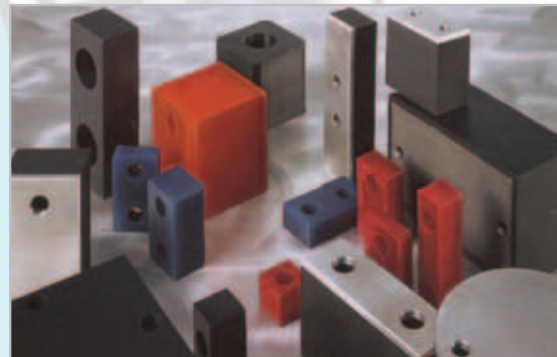
White nitrile rollers are chemical resistant and non-marring. They are suitable for applications where part protection and appearance are critical.



Shaft drive rollers are assembled with the hub already in place. Hub extends from one side with two set screws to lock into shaft. Accomodated shaft sizes from 3/8" to 1-1/4".

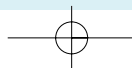


Our bumpers are available in black neoprene, white nitrile and polyurethane.



Configurations include round with a steel core and male or female threads, square rectangular. These and other special bumpers are available in a variety of sizes, durometers, mountings and backings. Custom cut bumpers also available.

MATERIALS HANDLING



# Rollers and Bumpers

technical information



## 6060-91

### AVAILABLE MATERIAL TYPES

Base Elastomer	Chemical Name	Advantages	Disadvantages	Maximum Service Temperature Degrees F.	Minimum Service Temperature Degrees F.
Neoprene	Chloroprene	Flame resistant, Weather resistant, Resists: gasoline, oil, ozone, high temp.	Affected by phosphate hydraulic fluids, aromatic hydrocarbons.	Continuous 200°. Intermittent 250°.	-40°
Urethane	Di-Isocyanate Polyurethane	Highest available abrasion resistance, strength and load bearing. High elongation, hardness. Resistant to ozone, oxygen.	Affected by ether, esters, acid, aromatics, alkalis. Performance is good, only with hardness.	Continuous 200°. Intermittent 250°.	-65°
Buna N (White Rollers)	Nitrile Butadiene	Resistant to gasoline, oil, alcohol, abrasion. Good physical properties.	Affected by degreaser solvents. Good physicals need reinforcement.	Continuous 175°. Intermittent 225°.	-60°
Durasoft®	Poly (1, 3, Cyclopentylene Vinylene)	Excellent, resilience and tear resistant, good abrasion, weather H <sub>2</sub> O and Ethylene Glycol resistance.	Affected by solvents, extreme high temperatures and gasoline.	Continuous 200°. Intermittent 250°.	-60°

### ADDITIONAL INFORMATION

Load capacity of bearings:

- Standard bearing - 1" wide 75lbs (68 kgf)
- 2" wide 150lbs (136 kgf)
- Precision Bearing - 1" wide 250lbs (225 kgf)
- 2" wide 500lbs (450 kgf)

Threads for rollers and bumpers are UNC threads and follow the following format:  
 5/16 - 18 x ¼  
 5/16 = Size of thread  
 18 = Pitch per inch  
 ¼ = Thread length

#### Durometer:

Durometer is a measure of relative hardness, for comparative purposes 60 Durometer is comparable to a car tyre.

#### Tips:

Do not leave heavy goods on the rollers overnight, as one side of the roller will remain flat for several days.

### APPLICATIONS



Bumpers have found their way into commercial exercise equipment providing protection and stability during use.



Bumpers are utilised to guide and align an automotive door in transfer machines for in-process assembly.



The harsh environment of car washes use rollers and bumpers during operation to protect the finish of today's automobiles.



Rollers and bumpers guide and align an automotive door in bonding and curing applications.

MATERIALS HANDLING