



60910

Material

Urethane: highly abrasion resistant, high strength and load bearing. High elongation and hardness. Resists ozone and oxygen. Temperature resistance: -18°C to

+93°C (shortly +120°C).

Technical Notes

Used for stops, guides, bumpers and protection. Moulded urethane bonded to

steel plate.

Tips

All dimensions metric.

Order No.	d_1	h_1	w_1	d_2	l ₂	w_2	R	Durometer
60910.W0701	50.8	50.8	50.8	7.13	4.76	63.50	9.53	60
60910.W0702	63.5	63.5	63.5	7.13	4.76	82.55	12.70	60
60910.W0703	76.2	76.2	76.2	10.31	6.35	101.60	15.88	60
60910.W0704	101.6	101.6	101.6	10.31	6.35	127.00	19.05	60
60910.W0711	50.8	50.8	50.8	7.13	4.76	63.50	9.53	80
60910.W0712	63.5	63.5	63.5	7.13	4.76	82.55	12.70	80
60910.W0713	76.2	76.2	76.2	10.31	6.35	101.60	15.88	80
60910.W0714	101.6	101.6	101.6	10.31	6.35	127.00	19.05	80

Wixroyd Rollers

overview



Wixroyd Rollers

Product overview



Solid rollers - have a smooth surface and a solid body



Durasoft rollers - have a smooth contact surface with teardrop holes to allow greater roller compression under load.



Finned rollers - are grooved and provide self-cleaning as dirt, debris and liquid pass under the contact surface of the roller.

Durability levels



20 durometer: Stiff foam rubber



35 durometer: Pencil rubber top



60 durometer: Car tyre

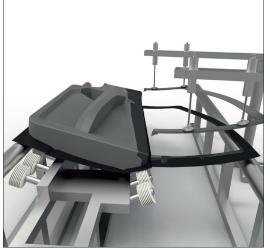


80 durometer: Skateboard wheel



90 durometer: Hockey puck

Applications



Rollers are used in car manufacturing to guide and align doors during bonding and curing applications



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



Wixroyd Rollers

material technical information

Materials Handling

Materials colour guide and properties





Nitrile - one colour Neoprene - one colour

Nitrile and neoprene





Advantages





Urethane

35 Durometer (Yellow)

Base

Elastomer

Chemical

Name

60 Durometer (Blue)

80 Durometer (Red)

Disadvantages

95 Durometer (Orange)

Max. Temp

	Material	properties
Min. Temp		

Nitrile	Nitrile Butadiene	Resistant to petrolium, oil, alcohol & abrasion.	Affected by degreaser solvents.	Continuous 79°C Intermittent 107°C -51°C
Neoprene	Chloroprene	Flame and weather resistant. Resistant to Petroleum, oil, ozone & high temp.	Affected by phosphate hydraulic fluids, aromatic hydrocarbons.	Continuous 93°C Intermittent 121°C -40°C
Urethane	Di-Isocyante Polyurethane	Highest abrasion resistance, strength & load bearing. High elongation, hardness. Resistance to Ozone & Oxygen.	Affected by ether, esters, acid, aromatics, alkallis.	Continuous 93°C Intermittent 121°C -54°C
Pro	perty:	Nitrile	Neoprene	Urethane
Tensile	Strength	✓ ✓	/ / /	/ / / /
Ozone F	Resistance	✓	√ ✓	/ / / /
Cut Re	esistance	✓ ✓	/ / /	/ / / /
Abrasion	Resistance	✓ ✓	/ / /	/ / / /
Resistance To:		Nitrile Neoprene Ure		Urethane
Itesist	ance io.		1100piono	Orctifalic
	ession Set	✓ ✓	✓ ✓ ✓	✓ ✓ ✓
Compre			•	
Compre ASTM	ession Set	✓ ✓	1 1 1	/ / /
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Wixroyd Rollers

bearings



The tables below show the maximum theoretical radius loads that can be applied to the respective bearings. Refer to individual product tables to identify bearing type supplied with roller.

Standard bearings

Bearing Type	Inside diameter (inches)	Outside diameter (inches)	Width (inches)	Load (Kg)	Speed (rpm)
A - Standard Double	.313/.317	.870/.875	.498/.502	55 36 24 20	50 100 250 500
B - Standard Single	.500/505	1.245/1.250	.370/.380	119 79 51 47	50 100 250 500
C - Standard Double	.500/505	1.245/1.250	.745/.755	192 128 83 70	50 100 250 500

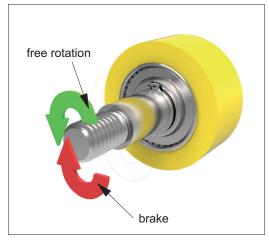
With the calculations above, typical life is approximately 2500 hours.

Clutch bearings

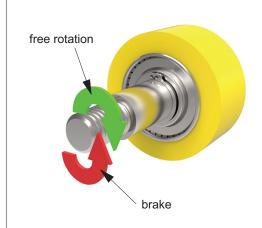
Bearing Type	Inside diameter (inches)	Outside diameter (inches)	Width (inches)	Load (Kg)	Speed (rpm)
Н	.3745/.3750	.6245/.6255	.865/.875	167 146 116 85	33 50 100 250
ı	.6245/.6250	.8745/.8755	.990/1.000	277 242 192 142	33 50 100 250

With the calculations above, typical life is approximately 1,000,000 revolutions or 500 hours. The bearings are shielded and pre-lubricated for life with grease.

A clutch roller can only be used in one direction, as shown. See data table for clutch direction of particular part.



Left clutch bearing



Right clutch bearing