

4" Compliant Wheel Expansion

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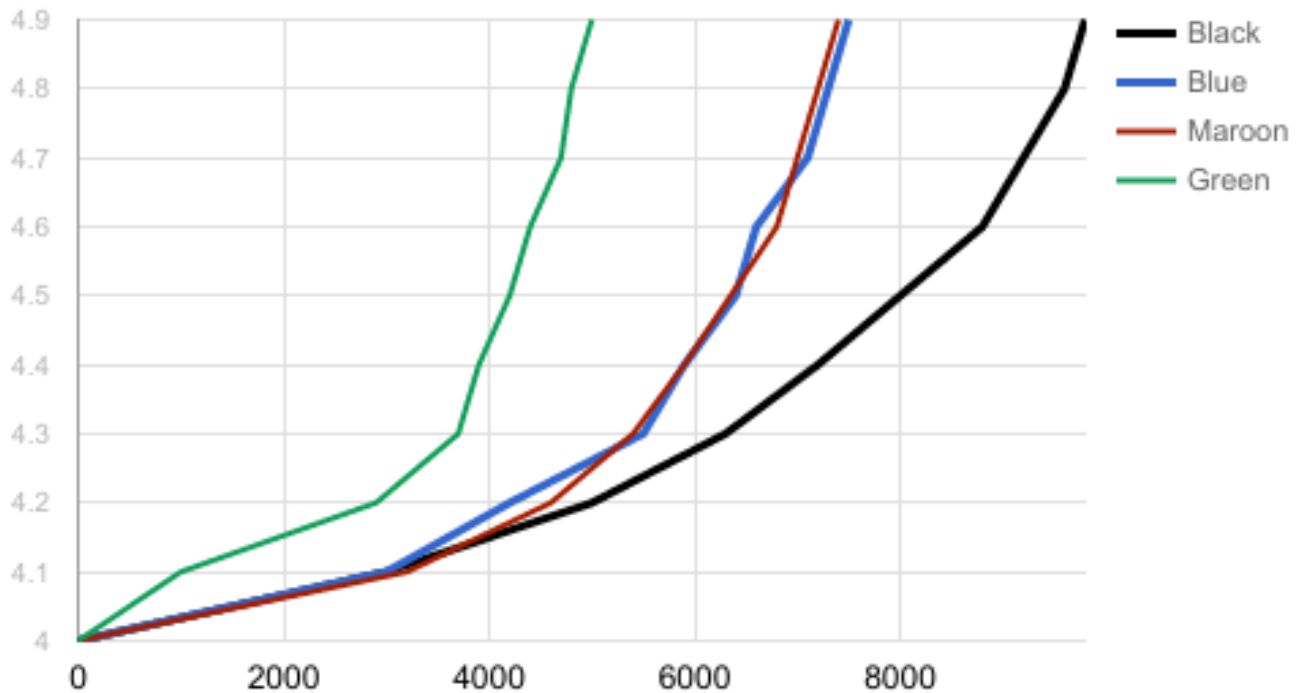
Testing

Methods

Each wheel was placed on a shaft that gradually increased in RPM. Measurements of the RPM were taken each time that a wheel's diameter expanded by 1/10".

Results

4" Compliant Wheel Expansion



Results By Wheel

Black

Maximum RPM: 9000

Wheel RPM	Wheel Diameter (in.)
0	4.0
3000	4.1
5000	4.2
6300	4.3
7200	4.4
8000	4.5
8800	4.6
9200	4.7
9600	4.8
9800	4.9

Blue

Maximum RPM: 9000

Wheel RPM	Wheel Diameter (in.)
0	4.0
3000	4.1
4200	4.2
5500	4.3
5900	4.4
6400	4.5
6600	4.6
7100	4.7
7300	4.8

7500	4.9
7700	5.0
7800	5.1
8000	5.2
8200	5.3

Maroon

Maximum RPM: 6000

Wheel RPM	Wheel Diameter (in.)
0	4.0
3200	4.1
4600	4.2
5400	4.3
5900	4.4
6300	4.5
6800	4.6
7000	4.7
7200	4.8
7400	4.9
7600	5.0

Green

Maximum RPM: 9000

Wheel RPM	Wheel Diameter (in.)
0	4.0
1000	4.1
2900	4.2
3700	4.3

3900	4.4
4200	4.5
4400	4.6
4700	4.7
4800	4.8
5000	4.9