

英国标准 BS EN 12528脚轮和轮子家具用脚轮测试

产品名称	英国标准 BS EN 12528脚轮和轮子家具用脚轮测试
公司名称	深圳市实测通技术服务有限公司
价格	.00/件
规格参数	
公司地址	深圳市罗湖区翠竹街道翠宁社区太宁路145号二单元705
联系电话	17324413130 17324413130

产品详情

Test item 测试名称 : Castors and Wheels - Castors for Furniture – Requirements 脚轮和轮子.家具用脚轮

Test info 测试内容 :

Clause	Test Requirement	Castor Type	Test Method (BS 12527: 1999)
5.2	Impact performance	All	Clause 4.12
5.3	Electrical resistance	C	Clause 4.4
5.4	Manual lock Device	Caster with manual lock device	Clause 4.6
5.5	Dynamic (H:500 cycles; W:1000 cycles;S:1000cycles)	All	Clause 4.13
5.6	Rolling resistance	All	Clause 4.15
5.7	Swivel test	All	Clause 4.16
5.8	Static load (24 hours)	All	Clause 4.9
5.9	Stem retention	All	Clause 4.17

Remark:

1. H type castor is hard tread and used on carpeted floor; W type castor is soft tread and used on tiled floor. C type castor is electrically conductive; S type is inclined axle castor.
2. Turnaround time 测试周期: 13 working days
3. Sample required 送样规格: 7 pieces

Other 其他:

H型: 带光滑轮子的脚轮被定义为H型, 硬的轮胎面

注: 这类脚轮适用于盖有地毯或瓷砖, 或其它没有覆盖织物的地面。

W型: 带有弹性轮胎轮子的脚轮被定义为W型, 软的轮胎面

注: 这类脚轮适用于硬石面, 木地板或瓷砖, 或其它没有覆盖织物的地面。

C型: 能导电的脚轮, C型脚轮可以是带软轮胎或硬轮胎的脚轮

注: 这类脚轮应有改良了的H型或W型的轮子。

S型: 斜轮轴脚轮

5.2 Impact performance

Rigidly vertically mount the caster to be tested upside down in a test rig placed on a solid floor. The test rig shall be able to impact the tread of the wheel/wheels. In the case of a twin wheel castor both wheels shall be impacted. The free falling mass L5 is caused to impact the castors ten times within a period of 10 min for each castor. No castor shall become detached during the tests with the loads and drop heights specified. On completion of the tests the rolling, pivoting or brake performance shall not be impaired.

5.3 Electrical resistance test

The electrical resistance between the metal plate and the castor shall be tested when the castor is loaded with the nominal load (a piece of wet blotting paper of the size of the contact area can be added to the castor if chair castors are tested) . The resistance R shall be:

Conductive caster/ wheel: R 104

Antistatic caster / wheel: 105 R 107

5.4 Efficiency check of wheel braking and/or locking device

The castor is placed on a horizontal smooth steel surface, clean from visible dirt. The braking device shall be engaged. Apply to the mounting plane of the castor a load L1. Then gradually apply a horizontal force K1 in the direction of the running direction of the wheel. The force K1 shall be applied for 10 s then released. Repeat the test once more for 10 s and monitor if the wheel revolves around its axle. Repeat the above procedure in the opposite direction. If during the application of the force K1 the wheel skids on the floor, change the force K1 to a higher grip and repeat the test.

5.5 Dynamic test for castors for furniture and swivel chairs only

One or more castors is/are mounted in such a way so as to run for a distance of one metre on a smooth steel surface. At the end of one metre the running direction of the castors shall be reversed. Run the castors for ten cycles at the rate of 6.5 cycles per minute under load L7. One cycle consists of a path of one metre forward and one metre back. One stroke and impact with two spaced obstacles occurs in each direction. (obstacle 2mm in thickness)

No castor or a part of a castor shall become detached during the test. Each castor shall still be able to perform its function at the end of the test program. On completion of the test the rolling, pivoting or braking performance shall not be impaired.

- 5.6 Rolling resistance test
A load L8 (including the frame) is applied for the three arm frame. A horizontal tractive force is applied to the frame to obtain a travel speed 50mm/s over the test table, with the castors arranged in the running direction. The test is run for a period of 10 s. No measurements are taken for the first 5 s of the test because of higher friction and the horizontal force shall not be more than 15%L8.
- 5.7 Swivel resistance test
One or more castors shall be mounted on a linear or circular test machine with the castor(s) in the running direction. A load L9 is applied to the castor(s). A horizontal tractive force provided to the machine at a speed of 50mm/s, for a period of 2 s will cause the castors to swivel. The highest force required to cause the castors to swivel is measured, and the swivel resistance w_4 shall not be more than 20%L9.
- 5.8 Static load performance
Apply the test load (either L1 multiplied by y_1 or L6) for a period of time 24hours.

Readings must be taken after a time 24hours from when the load is removed and the wheel diameter is measured to within 3% of the wheel diameter. On completion of the test the rolling, pivoting or braking performance shall be recorded.
- 5.9 Stem retention test
A steadily increasing load is applied between the caster and the stem of the caster in the direction of the stem until the required force L10 is reached. This force is then maintained for a minimum of 2 minutes.

The force to remove the stem shall not be less than L10(Circular stem 15N; Other stem 30N)

Sample for reference 参考图片:

<div style="font-family:" font-size:12px;white-space:normal;"="">Sample Report 报告样本 :