

A-type durometer applies to general rubber, synthetic rubber, soft rubber, poly-resin, leather, wax, etc.

C-type durometer applies to rubber and contains the tiny hole material that the vesicant is made in being used for plastic

D-type durometer applies to general hard rubber, hard resin, acryl, glass, thermoplastics, printing plates, fibres, etc.

1.Overview

Shore durometer is used to test hardness of sulfureted rubber and plastics, such instrument has A-type/D-type/C-type.

A-type and D-type apply to test the low and medium level hardness and high level hardness of materials.

C-type applies to test the hardness of shoe-making porous materials made by vesicants within plastics when the compression rate is 50% and stress is beyond 0.049MPa.

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Dial value:1-100 degree

Pointer journey:0-2.5mm

Stress at the end of pointer:0.55N-8.06N of A-type and C-type;0-44.5N of D-type

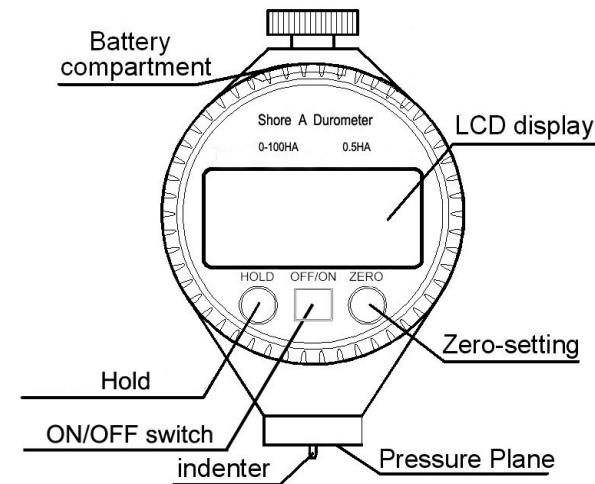
1.Operation instr ctions

Put the sample on a solid plane,hold the durometer to make the pointer at least 12mm away from the sample edge,and stably put the legs of durometer on the sample.Thus the pointer straightly goes into the sample till the legs completely get to the sample.Check the reading in 1s.Repeat shuch test 5 times at different place which are at least 6mm away from the test point and find the average reading(the distance between porous materials is at least 15mm).

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Check to make sure before test that figure indicates zero(if not indicates zero,users may press " ZERO" key).When press the durometer on the glass plane,the figure should indicate 100 degree(the top of pointer an its legs should tightly touch the glass).If it does not indicates ZERO or 100 degree,slightly press the pinter several times;if there is still error,it is advisable to send it back to the manufacturer.

If it allows,rubber samples should be under the laboratory standard temperature.If the test result of the sample by A-type durometer goes beyond 90 degrees,it is advisable to use D-type durometer.When the test of the sample by D-type durometer goes belw 20 degrees,it is advisable to use A-type durometer.If the figure on A-type durometer is below 10 degrees,it is incorrect and can't be used.When all the tests are over,users should clean the gauge,put it back into the box and keep it in a dry place.



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