Compliance with JIS K 6253 standard
for Hardness test of vulcanized or thermoplastic rubber

Analog | New JIS compliance
Digital | ISO compliance

This is Durometer to comply with JIS K 6253 (new JIS) standard established in 1993 for the purpose of conforming to ISO (International Standard Organization). Durometrers consist of 3 types namely, Type A for medium hardness, Type D for high hardness and Type E for low hardness. Type A tends to indicates higher value by 1~2 points compared with former Type A durometers. Type D is suitable for hard rubber having more than 90 hardness measured by type A durometer and Type E is suitable for soft rubber of which hardness is 20 and below measured by Type A durometers.

Standard Type

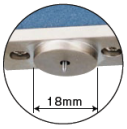
GS-719N
Type A Durometer
General rubber

NEW
GSD-719K
Type A Durometer
Digital type
With peak detection

Digital Durometer with Peak Hold Function
This is the model for which peak hold (Maximum value is held) function is mounted.
This is effective to measure hardness of Elastomer of which maximum value is unreadable due to relaxation phenomenon.
Minimum read value is o.5 and it is a half of analog type.
Measured data can be treated as statistics by connecting with optional printer SD-763P.

Pressurized Face ϕ18mm Durometer mounted to Stand

Pressurized face diameter of type A and type D durometer mounted to a stand is defined 18mm by JIS standard and ISO standard. ϕ18mm type A(GS-719R) and type D (GS-720R) can be used as they are for measuring by pushing by hand.



GS-719R
Type A Durometer
Stand mounting compatible type
Peak pointer type

NEW
GSD-719K-R
Type A Durometer
Digital type
Stand mounting compatible type
Peak pointer type

Specifications

	Model	Type	Application / Materials	Conform Standards	Spring Load Value 0-100	Indentor Shape (mm)	Indentor Height (mm)	Weight (g)
Analog	GS-719N	Type A	General rubber (Medium hardness)	JIS K 6253 / ISO 7619 / ISO 868 / ASTM D 2240	550-8050mN (56.1-821.1gf)	Truncated Cone of ϕ 0.79 with 35° angle	2.50	200
	GS-719G	Type A(Peak Pointer Type)	General rubber (Medium hardness)		550-8050mN (56.1-821.1gf)	Truncated Cone of ϕ 0.79 with 35° angle	2.50	208
	GS-719R	Type Aϕ18mm / stand combined	General rubber (Medium hardness)		550-8050mN (56.1-821.1gf)	Truncated Cone of ϕ 0.79 with 35° angle	2.50	213
	GS-720N	Type D	Hard rubber (High hardness)		0-44450mN (0-4533gf)	Conical Cone of R0.1 with 30° angle	2.50	200
	GS-720G	Type D(Peak Pointer Type)	Hard rubber (High hardness)		0-44450mN (0-4533gf)	Conical Cone of R0.1 with 30° angle	2.50	208
	GS-720R	Type Aϕ18mm / stand combined	Hard rubber (High hardness)		0-44450mN (0-4533gf)	Conical Cone of R0.1 with 30° angle	2.50	213
	GS-721N	Type E(AO)	(High hardness) Soft rubber	JIS K 6253 / ISO 7619 / ASTM D 2240	550-8050mN (56.1-821.1gf)	Hemisphere of SR2.50	2.50	200
	GS-721G	Type A(Peak Pointer Type)	(High hardness) Soft rubber		550-8050mN (56.1-821.1gf)	Hemisphere of SR2.50	2.50	208
	GS-719P	Type A(Pocket Type)	General rubber (Medium hardness)	JIS K 6253	550-8050mN (56.1-821.1gf)	Truncated Cone of ϕ 0.79 with 35° angle	2.50	125
Digital	GSD-719K	Type A	General rubber, soft plastic	JIS K 6253, JIS K 7215, ISO 7619, ISO 868, ASTM D 2240	550-8050mN (56.1-821.1gf)	Truncated Cone of ϕ 0.79 with 35° angle	2.50	313
	GSD-720K	Type D	Hard rubber, Plastic		0-44450mN (0-4533gf)	Conical Cone of R0.1 with 30° angle	2.50	313
	GSD-721K	Type E(AO)	Very soft rubber	JIS K 6253, ISO 7619 ASTM D 2240	550-8050mN (56.1-821.1gf)	Hemisphere of SR2.50	2.50	313
	GSD-719K-R	Type Aϕ18mm / Stand combined	General rubber (Medium hardness)	JIS K 6253, ISO 7619 ISO 868, ASTM D 2240	550-8050mN (56.1-821.1gf)	Truncated Cone of ϕ 0.79 with 35° angle	2.50	320
	GSD-720K-R	Type Aϕ18mm / Stand combined	Hard rubber (High hardness)		0-44450mN (0-4533gf)	Conical Cone of R0.1 with 30° angle	2.50	320

Peak Pointer Type

Some of Rubbers, Elastomer' elastic body is not easily read the maximum value after firm contacting with a presser foot of durometer , due to the stress relaxation. The pointer indicates the descendent value but the peak pointer is holding the maximum measured value. The peak pointer type can easily read the maximum value efficiently. In case the pointer cannot be read directly due to some obstacles altough the measuring can be done, the mesured value can be confirmed from peak pointer after measuring. The upper / lower limiters equipped will be effectively used in tolerance judgment.