



# 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). Durometers 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 indicate 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

## Pressurized Face $\phi$ 18mm 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.  $\phi$ 18mm 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**

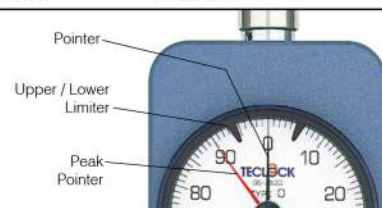
Type A Durometer  
Digital type  
Stand mounting compatible type  
Peak pointer type

## Specifications

Model	Type	Application / Materials	Conform Standards	Spring Load Value 0-100	Indenter Shape (mm)	Indenter Height (mm)	Weight (g)
GS-719N	Type A	General rubber (Medium hardness)	JIS K 6253	550-8050mN (56.1-821.1gf)	Truncated Cone of $\phi$ 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 $\phi$ 0.79 with 35° angle	2.50	208
GS-719R	Type A $\phi$ 18mm / stand combined	General rubber (Medium hardness)		ISO 7619	550-8050mN (56.1-821.1gf)	Truncated Cone of $\phi$ 0.79 with 35° angle	2.50
GS-720N	Type D	Hard rubber (High hardness)	ISO 868	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)	ASTM D 2240	0-44450mN (0-4533gf)	Conical Cone of R0.1 with 30° angle	2.50	208
GS-720R	Type D $\phi$ 18mm / 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	550-8050mN (56.1-821.1gf)	Hemisphere of SR2.50	2.50	200
GS-721G	Type A(Peak Pointer Type)	(High hardness) Soft rubber	ASTM D 2240	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 $\phi$ 0.79 with 35° angle	2.50	125
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 $\phi$ 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 A $\phi$ 18mm / Stand combined	General rubber (Medium hardness)	JIS K 6253, ISO 7619	550-8050mN (56.1-821.1gf)	Truncated Cone of $\phi$ 0.79 with 35° angle	2.50	320
GSD-720K-R	Type A $\phi$ 18mm / Stand combined	Hard rubber (High hardness)	ISO 868, ASTM D 2240	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 although the measuring can be done, the measured value can be confirmed from peak pointer after measuring. The upper / lower limiters equipped will be effectively used in tolerance judgment.



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