



## DUROMETER TYPES AND SPECIFICATIONS



DUROMETER TYPE	ASTM TYPE	Model No	Digital Model No	FORCE	INDENTER DESCRIPTION	INDENTER IMAGE	APPLICATION
<b>A</b>	ASTM D2240 JIS K6253 ISO 868	201 306L 408 501A	211 511A	821 gf	Truncated Cone 35° Included Angle		Type A durometers measure the hardness of neoprene, EPDM rubber, polyurethane, printing rollers, silicone, white PVC and other similar materials.
<b>B</b>	ASTM D2240	201B 306BL 408B 501B	211B 511B	821 gf	Conical 30° Included Angle		Type B durometers measure the hardness of skate wheels, printing platen, rubber, thermoplastic, and elastomers.
<b>C</b>	ASTM D2240	202C 307CL 409C 502C	212C 512C	4.53 kgf	Truncated Cone 35° Included Angle		Type C test Hardness of Medium Hard Rubber, Elastomers, and Thermoplastics.
<b>ASKER C</b>	SRIS-0101	601 603 604	611	855 gf	0.200" Spherical Diameter (5.08mm)		ASKER® C Durometers measure the indentation hardness of soft rubber, sponge and plastic foam, elastomers, and similar materials.
<b>D</b>	ASTM D2240 JIS K6253 ISO 868	202 307L 409 502D	212 512D	4.53 kgf	Conical 30° Included Angle		Type D is for determining indentation hardness of Pipeline Coating, Hard Rubber, Acrylic, Delrin, Kevlar, PVC, Nylon, Lexan and Epoxies.
<b>M</b>	ASTM D2240	1600-M with OS- 3 Stand	DD-4M with OS- 3 Stand	78 gf	30° Included Angle		This system is designed specifically for measuring small cross section O-rings and thin pieces of rubber (not less than 1.25mm thick). Available in both analog and digital, the Type M comes with an Air Dampened Operating Stand.
<b>DO</b>	ASTM D2240	202DO 413 502DO	212DO 512DO	4.53 kgf	3/32" Spherical Diameter (2.38mm)		Fire Proof Coatings, (Carboline® Pyrocrete® 241), Moderately Hard Rubber, Medium Print Rollers, Elastomers and Dense Textile windings.
<b>E</b>	ASTM D2240	408E 501E	511E	821 gf	0.200" Spherical Diameter (5.08mm)		Type E is for Medium Density Textile Windings, Soft Rubber, Foamed Elastomers, Wound Threads, Yarn Packages.
<b>O</b>	ASTM D2240	201/O 410 501/O	211/O 511/O	821 gf	3/32" Spherical Diameter (2.38mm)		Type O durometers measure the hardness of soft printing rollers, nylon, rayon, orlon, artgume, and textile windings.
<b>OO</b>	ASTM D2240 (no analog Max Hand per ASTM)	203 411	511/OO	113 gf	3/32" Spherical Diameter (2.38mm)		Type OO durometers measure the hardness of polyethylene foam roll, sponge rubber, very soft rubber.
<b>OOO</b>	ASTM D2240 (no analog Max Hand per ASTM)	412 412L	N/A	113 gf	1/2" Spherical Diameter (12.7mm)		Type OOO durometers measure the hardness of very soft materials, suit foams, and open or closed cells.
<b>OOO-S</b>	ASTM D2240	303	N/A	197 gf	15/32" Spherical Diameter (11.9mm)		Type OOO-S Shore Durometer measures the hardness of viscoelastic polymers. Applications include motorcycle seats, medical pads and wheel chair cushions for pressure ulcer prevention. Equestrian pads, gun recoil pads and cool gel mattresses.
<b>CF</b>	ASTM 1957	414CF	N/A	9.11 kgf	1/2" Spherical Diameter (12.7mm)		Model 414CF Type CF Durometer measures hardness of all generations of foam products: Freon blown types, water blown types, and new composite foams.
<b>SL</b>		302SL	N/A	142 gf	1 cm <sup>2</sup> - Circular (0.155in <sup>2</sup> )		The Model 302SL Foam & Rubber Durometer is a unique instrument that measures the hardness of soft materials such as foam rubber, sponge rubber, cellular material and gel-like materials.

All of the above ASTM durometer types are available as an ASTM "R" designated durometer. This designation has a flat circular base (presser foot) with a diameter of 18mm ± 0.5mm (0.71" ± 0.02")

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