

Durometer* Conversion Chart

Approximate Hardness Value
(to be used as a guide)

SOLID RUBBER

Example	Chewing Gum				Pencil Eraser			Windshield Wiper Blade				Skate Wheel			Bowling Ball		
Shore A Rubber, Soft Plastic & Polyurethane	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
Shore B** Rigid Rubber	6	12	17	22	27	32	37	42	47	51	56	62	66	71	76	81	85
Shore C** Rubber & Plastic			9	12	14	17	20	24	28	32	37	42	47	52	59	70	77
Shore D Hard Rubber & Plastic			6	7	8	10	12	14	16	19	22	25	29	33	39	46	58
Shore O** Soft Rubber	28	35	42	48	53	57	61	65	69	72	75	79	84				

CELLULAR RUBBER

Type	Soft (Pillow)	Soft-Medium (Mattress)	Medium (Tennis Ball)	Medium-Firm (Styrofoam Cup)	Firm (Life Preserver)
Shore OO Sponge	20 - 55	35 - 65	60 - 80	65 - 85	65 - 90

Type	Soft (Pillow)	Soft-Medium (Mattress)	Medium (Tennis Ball)	Medium-Firm (Styrofoam Cup)	Firm (Life Preserver)
Density Foam	2 - 5 PSI 14 - 35 kPa	5 - 9 PSI 35 - 63 kPa	9 - 13 PSI 63 - 91 kPa	13 - 17 PSI 91 - 119 kPa	17 - 25 PSI 119 - 177 kPa

*Durometer is the standard for hardness measurement of rubber, plastic, sponge & non-metallic material.

** Not commonly used

