



DUROMETER CONVERSION CHART

Durometer is the standard for hardness measurement of urethane.

Durometer measures the hardness of an elastomer, similar to Rockwell hardness for steel. A durometer is a measure of indentation of a shaped pin into the elastomer surface at a given load. Shore A and D are the most commonly used scales.

Durometer is one of the most critical properties to consider when selecting suitable polyurethane for durability and abrasion characteristics. The higher the number on each scale, the harder the urethane. Harder durometers exhibit better mechanical properties and better abrasion and chemical resistance than softer durometers.

TYPE	Extra Soft / Soft (Chewing Gum)			Medium Soft (Eraser)			Medium Hard (Tire Tread)							Hard (Skate Wheel)			Extra Hard (Hard Hat)			
	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	
SHORE A Rubber, Soft Plastic & Polyurethane																				
SHORE D Hard Rubber & Plastic										12	14	16	19	22	25	29	33	39	46	58

TYPE	Firm (Tennis Ball)	Extra Firm (Styrofoam Cup)	Very Firm (Life Preserver)
DENSITY Foam	9 - 13 PSI 62 - 89 kPa	13 - 16.5 PSI 89 - 114 kPa	16.5+ PSI 114+ kPa