



MECHANICAL RUBBER

Durometer* Conversion Chart

Approximate Hardness Value
(to be used as a guide)

| Type | Extra Soft / Soft (Chewing Gum) | | | | Medium Soft (Pencil Eraser) | | | Medium Hard (Windshield Wiper Blade) | | | | | | | Hard (Skate Wheel) | | | Extra Hard (Bowling Ball) | | |
|---|------------------------------------|----|----|----|--------------------------------|----|----|---|----|----|----|----|----|----|-----------------------|----|----|------------------------------|----|-----|
| Shore A Rubber, Soft Plastic & Polyurethane | | 10 | 15 | 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 | 8 | 14 | 21 | 28 | 35 | 42 | 48 | 53 | 57 | 61 | 65 | 69 | 72 | 75 | 79 | 84 | | | | |

| Type | Soft (Slice of Bread) | | | | Med. Soft (Seat Cushion) | | | Med. Firm (Mouse Pad) | | | | | | | Firm (Tennis Ball) | |
|---------------------------|--------------------------|----|----|----|-----------------------------|----|----|--------------------------|----|----|----|----|----|----|-----------------------|----|
| Shore OO Sponge | 45 | 55 | 62 | 70 | 76 | 80 | 83 | 86 | 88 | 90 | 91 | 93 | 94 | 95 | 97 | 98 |

| Type | Very Soft (Slice of Bread) | | Extra Soft (Pillow) | | Soft (Mattress) | | Firm (Tennis Ball) | | Extra Firm (Styrofoam Cup) | | Very Firm (Life Preserver) | |
|------------------------|-------------------------------|--|------------------------|--|--------------------|--|-----------------------|--|-------------------------------|--|-------------------------------|--|
| Density Foam | 0 - 2 PSI | | 2 - 5 PSI | | 5 - 9 PSI | | 9 - 13 PSI | | 13 - 16.5 PSI | | 16.5+ PSI | |
| | 0 - 14 kPa | | 14 - 34 kPa | | 34 - 62 kPa | | 62 - 89 kPa | | 89 - 114 kPa | | 114+ kPa | |

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

** Not commonly used