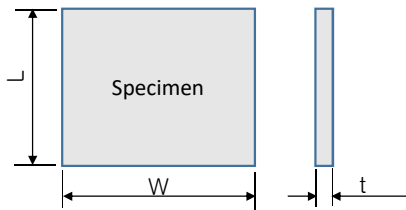


■ Density (ASTM D3574)



*Specimen size : 100mm(W) x 100mm(L)

*Calculation

$$\text{Density} = M / V \text{ [g/cm}^3\text{]}$$

where:

M = mass of specimen, g, and

V = volume of specimen, $\text{cm} = L \times W \times t$

■ Compression Force Deflection (ASTM D3574)

◆ Specimen size : 25(or 50)mm x 25(or 50)mm x laminating of 10mm(t), unless otherwise specified.

◆ Environment : $23 \pm 2^\circ\text{C}$, $50 \pm 5\%\text{RH}$

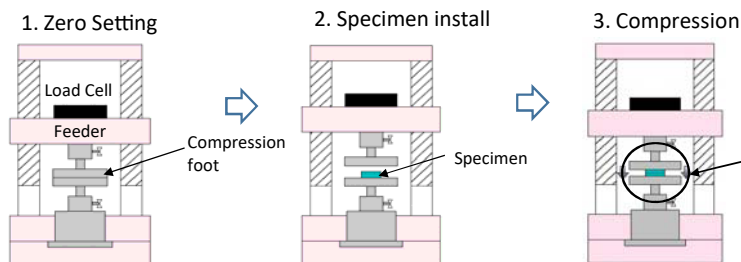
◆ Compression speed : 5(or 4)mm/min.

◆ # of specimens : Three specimens per sample shall be tested.

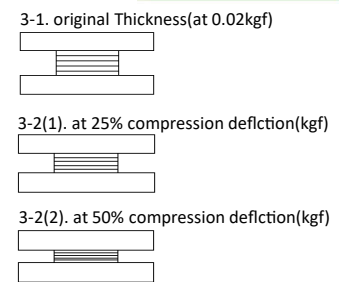
The value reported shall be the mean of those observed.

◆ Measurement : 30 seconds after placing the probe on the sample

[Procedure]



※ Compression Force Deflection, kPa = $[\text{force, N}] / [\text{specimen area, m}^2]$



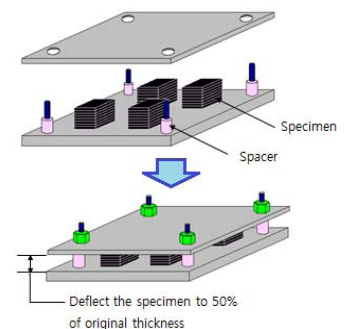
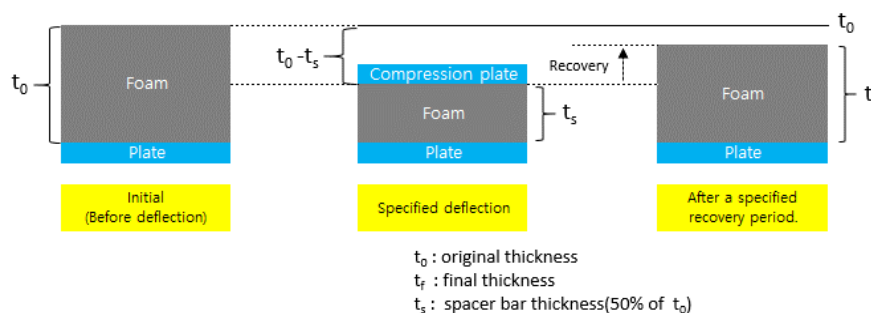
■ Compression Set (ASTM D3574)

◆ Specimen size : (1) 50mm x 50mm x 25mm(t) (ASTM D3574), unless otherwise specified.

(2) or 25mm x 25mm x laminating of 10sheets (t)

◆ Deflection Condition : A specified deflection(50%) of original T → 70°C , 22hrs → Recovery of the specimen for 30~40minutes at 23°C , 50%RH

◆ # of specimens : Three specimens per sample shall be tested. The value reported shall be the mean of those observed.



※ Calculation

(1) C_t : compression set expressed as a percentage of the original thickness

$$C_t = [(t_0 - t_f) / t_0] \times 100$$

(2) C_d : compression set expressed as a percent of the original deflection

$$C_d = [(t_0 - t_f) / (t_0 - t_s)] \times 100$$

(Note) Approximate conversion of C_t to C_d can be calculated by multiplying the 50 % C_t by 2, the 75 % C_t by 1.33, and the 90 % C_t by 1.11.

