

## DY Series Silicone

### Summary

**DY series silicone** is soft, compressible and has adhesive on surface. It can adhere well with foam to fill gaps. When it is squeezed, due to its own creep effects, it will produce adaptive deformations, reduce or eliminate stress, avoid the appearance of stress mark, and achieve the effect of "remove marks with softness". This product has excellent manufacturability and usability, and has a wide range of thickness. It is an excellent flexible filling material and is widely used in electronic and electrical products.

### Features

- Strong creep adaptability and deformability
- Strong self-healing, fast recovery
- Soft and elastic, suitable for gap filling
- The hardness is uniform and stable, and the tolerance is less than the industry range
- Excellent die-cutting performance, no residual glue and no glue overflow
- Good surface adherence
- Moderate viscosity and long-term stable adhesion
- Low D<sub>3</sub>-D<sub>10</sub> volatile amount which can avoid electric shock failure and optical blur

### Applications

- tolerance compensation
- creep adaptability and cushioning
- remove stress mark

### Environmental requirements

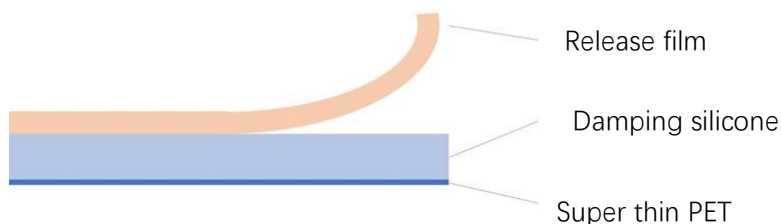
- comply with RoHS and halogen control standards

### Storage

- storage condition: in the dark;  
storage temperature: ≤30°C;  
storage humidity: ≤70%;
- The stacking height does not exceed 7 layers, and the total height is less than 1m.
- shelf life: two years with proper storage conditions.

### Product specification

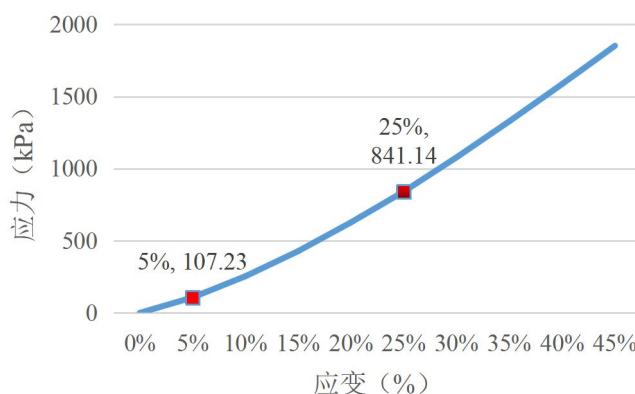
- size: 0.5m(width)×100m(length), in roll form.
- thickness: 0.15mm, can be customized according to needs.



### Physical properties

properties	test method	typical values
color	visual inspection	clear silicone/black PET
thickness (mm) tolerance (%)	thickness gauge	0.15 ±10
density (g/cm <sup>3</sup> )	ASTM D792	0.95~1.00
25% compression force deflection (kPa)	compressing speed 5mm/min	730~870
adhesion of silicone surface (gf/25mm)	180degree peeling off	25~30
volume resistivity (Ω • cm)	ASTM D257	3.4 × 10 <sup>15</sup>
recommended working temperature (°C)	/	-40~120
D <sub>3</sub> -D <sub>10</sub> amount (ppm)	/	<200

DY compression force deflection curve



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