

## Super High Hardness Silicone Rubber

There are Special grade of silicone rubber that is specially designed as super shore A hardness  $90 \pm 3$  with transparent color.

### FEATURES

- High Hardness 90 shore A
- Transparent.
- High Williams plasticity and high green strength
- Good mechanical properties.
- Comply with FDA Reg. 21 CFR 177. 2600. for food contact applications

### APPLICATIONS

- Keytop of keypad.
- O-ring, Gasket, Seals
- Food Contact article (Kitchenware, bottles)

### PROPERTIES

Catalyst : HC-8 / 1.8phr (171°C×10min / 200°C×4hrs)

Typical Properties	Test Method	HR-1991U(T)	HR-2290U
Colors	ASTM E 1767	Translucent	Transparent
William's plasticity	ADTM D 926	300	450
Specific gravity	ASTM D 792	1.24	1.25
Hardness	ASTM D 2240	90	90
Tensile strength (MPa)	ASTM D 412	8.5	9.5
Elongation (%)	ASTM D 412	150	100
Tear strength (kgf/cm)	ASTM D 624 "B"	12	13
	ASTM D 624 "C"	30	35
Rebound resilience (%)	ASTM D 1054	50	50
Compression set (%) <sup>*1</sup>	ASTM D 395	12	16
Linear shrinkage (%)	JIS K 6249	3.6	3.8

\*1. Compression Set : 177°C×22hrs