

## High Heat Resistance Silicone Rubber

There are specially designed for use in high temperature application in range of 250°C ~ 315°C in limited period.

### FEATURES

- Specially designed for high temperature resistant in range of 250°C ~ 315°C.
- Excellent all properties
- Excellent for compression molding and extrusion

### APPLICATIONS

- Electric Dry-oven Gaskets
- Electronic Micro-oven Gaskets
- Autoclave Packing
- Glass tube handling of Pads

### PROPERTIES

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

Typical Properties		HR-520U	HR-620U	HR-720U	HR-820				
Color	ASTM E 1716	Natural			Beige				
William's plasticity	ASTM D 926	220	230	290	300				
Specific Gravity	ASTM D 792	1.13	1.16	1.18	1.34				
Hardness	ASTM D 2240	52	60	72	80				
Tensile Strength (MPa)	ASTM D 412	10.0	10.0	10.0	8.5				
Elongation (%)	ASTM D 412	400	250	250	100				
Tear Strength (kgf/cm)	ASTM D 624 "B"	15	13	10	10				
	ASTM D 624 "C"	29	25	30	24				
Rebound resilience (%)	JIS K 6255	55	55	50	50				
Compression Set (%)	ASTM D 395	30	22	29	28				
Linear shrinkage (%)	JIS K 6249	4.0	3.9	3.8	2.8				
Volume Resistivity (ohm.cm)	ASTM D 257	10 <sup>15</sup>	10 <sup>15</sup>	10 <sup>15</sup>	10 <sup>15</sup>				
Dielectric Strength (KV/mm)	ASTM D 149	23	23	22	22				
PROPERTIES CHANGE AFTER HEAT AGING TEST ( ASTM D 573 )									
Color		BEIGE	RED	BEIGE	RED	BEIGE	RED	BEIGE	RED
250°C×72hrs	Hardness change	-2	+4	-2	+2	-3	-3	-3	-3
	Tensile strength change (%)	-28	-26	-28	-26	-26	-26	-25	-25
	Elongation change (%)	-30	-30	-30	-30	-28	-28	-26	-26
300°C×24hrs	Hardness change	+3	+2	+3	+3	+4	+4	+4	+4
	Tensile Strength change (%)	-35	-32	-35	-34	-34	-34	-33	-33
	Elongation change (%)	-36	-34	-36	-34	-32	-32	-30	-30