# **TECHNICAL INFORMATION**



## Steam Resistance Silicone Rubber

HR-3700 series are very special grade which are specially designed & modified for high steam resistant for use direct steam & boiling water contacted applications such as rice jar packing, electric pot packing etc.

#### # FEATURES

- Excellent Heat & steam resistant Properties
- Excellent rebound & compression set
- Excellent possibility

### # APPLICATIONS

- Rice Steam Cooker Packing
- Electric pot & teapot packing, valve, O-ring
- Steam Line Packing.





#### **PROPERTIES**

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

Typical Properties		Test Method	HR-3700/50U	HR-3700/60U	HR-3700/70U
Color		ASTM E 1716	Transparent		
William's plasticity		ASTM D 926	210	230	250
Specific Gravity		ASTM D 792	1.13	1.15	1.18
Hardness		ASTM D 2240	50	60	70
Tensile Strength (MPa)		ASTM D 412	10	10	10
Elongation (%)		ASTM D 412	400	350	300
Tear Strength (kgf/cm)		ASTM D 624 "B"	15	14	15
		ASTM D 624 "C"	29	32	30
Rebound resilience (%)		JIS K 6255	65	65	60
Compression set (%)*1		ASTM D 395	12	10	10
Linear shrinkage (%)		JIS K 6249	4	4	3.9
		PROPERTIES (	CHANGE AFTER STEA	AM AGING	
110℃ Steam 30Days	Hardness change		-2	-2	-2
	Tensile strength change (%)		-11	-10	-8
	Elongation change (%)		-15	-12	-10
150℃ Steam 30Days	Hardness change		+1	+1	+1
	Tensile strength change (%)		-47	-46	-47
	Elongation change (%)		-47	-47	-48
PROPERTIES CHANGE AFTER BOILING WATER AGING					
100±1℃Water 96hrs	Hardness change		+1	+1	0
	Tensile strength change (%)		-2	-2	0
	Elongation change (%)		-3	0	-2

The information and data contained herein are based on information we believe reliable. You should thoroughly test any application, and independently conclude satisfactory performance before commercialization. Suggestions of uses should not be taken as inducements to infringe any particular patent.