

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 STEAM AGING				
110°C Steam 30Days	Hardness change	-2	-2	-2
	Tensile strength change (%)	-11	-10	-8
	Elongation change (%)	-15	-12	-10
150°C 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°C Water 96hrs	Hardness change	+1	+1	0
	Tensile strength change (%)	-2	-2	0
	Elongation change (%)	-3	0	-2