TECHNICAL INFORMATION



High Voltage Resistant Silicone Rubber

HRV-3 Series are specially designed for high voltage resistant applications of high voltage cable connectors, silicone insulators, insulation tubes and sleeves, high voltage cables.

FEATURES

- Very high dielectric resistant
- Excellent all others electrical properties
- Very high mechanical properties
- Excellent hydrophobic, water repellent
- Excellent resistant to UV, Ozone and ground environments

Ħ APPLICATIONS

- Cable connectors
- Silicone rubber insulators
- Electrical insulation tubes, sleeves
- High voltage cable insulation.

PROPERTIES	<u>Catalyst : HC-8 / 1.8phr (171 °C×10min / 200 °C×4hrs)</u>				
Typical Properties	Test Method	HRV-3/40	HRV-3/50	HRV-3/60	HRV-3/70
Color	ASTM E 1716	Transparent			
William's plasticity	ASTM D 926	1.11	1.14	1.15	1.18
Specific Gravity	ASTM D 792	170	200	230	270
Hardness	ASTM D 2240	40	50	60	70
Tensile Strength (MPa)	ASTM D 412	100	95	95	95
Elongation (%)	ASTM D 412	650	450	350	200
Tear Strength (kgf/cm)	ASTM D 624 "B"	30	16	17	18
	ASTM D 624 "C"	35	40	41	42
Rebound resilience (%)	JIS K 6255	58	58	57	55
Linear shrinkage (%)	JIS K 6249	4.2	4.0	3.9	3.8
Volume Resistivity (ohm.cm)	ASTM D 257	2*10 ¹⁶	2*10 ¹⁶	2*10 ¹⁶	2*10 ¹⁶
Dielectric Strength (KV/mm)	ASTM D 149	27	30	30	30

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.