

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

APPLICATIONS

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

PROPERTIES

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

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