High Voltage Insulator Silicone Rubber

There are specially designed silicone rubber compounds for high voltage insulator application, which require excellent performance in contaminated environments.

FEATURES

- Excellent Tracking and Erosion Resistance.
- Excellent Dielectric Strength.
- Superior Water Repellency (Hydrophobicity).
- Excellent Weathering and Air Pollution.
- Low Leakage Current.
- Excellent Injection Molding Processibility.

APPLICATIONS

- Suspension Insulation.
- Line Post Insulator.
- Surge Arrestor.
- Cable Terminator and Connectors.

INSTRUCTION OF USE

- This Production is supplied with catalyst (Ready to use) but without color. The suitable curing temperature is 160 ~ 180℃ compression molding and injection molding process.

HANDING AND SAFETY

- See MSDS

SPECIFICATION

- All our technical information data should not be used as a specification.

STORAGE AND WARRANTY

- The warranty period is 6months from date of shipment.
- Must be stored cool/dark place

TECHNICAL INFORMATION

PROPERTIES

Catalyst : HC-8 / 1.8phr (171℃×10min)

Typical Properties		HVI-65	HVI-70
Application		Insulator Surge Arrestors	
Color	ASTM E 1767	Gray	
Specific Gravity	ASTM D 792	1.52	1.54
Hardness	ASTM D 2240	65	70
Tensile strength (MPa)	ASTM D 412	5	5
Elongation (%)	ASTM D 412	250	230
Tear Strength (kgf/cm)	ASTM D 624 “B”	15	13
Rebound resilience (%)	JIS K 6255	50	49
Compression set (%)*1	ASTM D 395	24	24
Linear shrinkage (%)	JIS K 6249	2.9	2.85
Flame retardant	IEC 60695	V-0	V-0

*1. Compression Set : 177℃×22hrs

Electrical Properties		HVI-65	HVI-70
Volume resistivity (Ohm·cm)	ASTM 257	2.5×10^{15}	2.5×10^{15}
Dielectric strength (Kv/mm)	ASTM 149	23	23
Dielectric constant (1KHz)	ASTM 150	4.0	4.0
Dissipation factor (1KHz)	ASTM 150	0.03	0.03
Tracking resistant (KV)	IEC 60587	4.5	4.5
Arc resistant (Second)	ASTM D 495	>200	>200