



***TSC***

**TECHNICAL DATA SHEET**

## SH-300IX

- Application : Silane Crosslinkable Low Smoke Zero Halogen Insulation and Jacketing.
- This is flame-retardent compound that emit limited smoke and zero halogen when exposed to high sources of heat. This 300 grade is composed of Magnesium hydroxide, Mg(OH)<sub>2</sub>. This type of material is typically used in poorly ventilated areas such as ships, subway and tunnels. This reduces the chance of toxic gasses accumulating in these areas should the wires be damaged by fire or a short circuit fault.

### 1 Technical Properties

Item		Unit	Value	Test Method
Physical	Specific Gravity	-	1.44	ASTM D792
Mechanical	Tensile Strength	Kgf/mm <sup>2</sup>	1.5	IEC 60811
	Elongation	%	250	IEC 60811
Air Oven Aging Retention (135 °C x 240 hr)	Tensile Strength	%	90	IEC 60811
	Elongation	%	88	IEC 60811
Flammability	LOI	%	35	ASTM D2863
Smoke Density	Flame Mode (3mm Sheet)	Dm	90	ASTM E662
HOT/SET (200 °C/15min 20N/cm <sup>2</sup> )	HOT Elongation	%	75	IEC 60811
	SET Permanent	%	5	IEC 60811
Additional Properties	Halogen (HCL) Content	%	0.5 ↓	IEC 60754-1

*Note: Typical value ; not be construed as specification (Measured on T-DIE specimen, THK: 1mm)*

## SH-300IX

### 2 Processing Techniques

SH-300IX provides excellent surface and out-put with special extruder and screw (L/D: 24/1, CR: 2.0).

The recommended extrusion conditions temperature is 160~210 °C, but optimum operation Conditions should be established depending on your facilities and requirements.

\* Catalyst Master Batch blend 1~2 wt %

### 3 Extrusion Conditions

Zone	C1	C2	C3	C4	Neck	Head	Dies
Temp' (°C)	165	170	175	180	195	195	200

*Note: The figures indicted on the tables are standard values.*

### 4 Packing

- 500~700Kg Reinforced Carton Box with inner aluminum liner.
- 25Kg Paper bag with inner aluminum liner.
- Be available to another method you want

### 5 Storage

- Avoid the direct sun-light.
- After opening the bags, we recommend you to use those ASAP.