



***TSC***

**TECHNICAL DATA SHEET**

### SH-300PV-EN

- Application: Silane Crosslinkable Low Smoke Zero Halogen Insulation and Jacketing.
- Used for Cross-linkable compound by moisture.
- This type of material is typically used in Solar cable, Ships, Subway, Tunnels and etc.

#### 1 Technical Properties

Item		Unit	Value	Test Method
Physical	Specific Gravity	-	1.42	ASTM D792
Mechanical	Tensile Strength	N/mm <sup>2</sup>	15	EN 60811
	Elongation	%	250	EN 60811
Air Oven Aging Retention (150°C x 240hr)	Variation(Tensile Strength)	%	26	EN 60811
	Variation(Elongation)	%	-20	EN 60811
Resistance N-Oxalic acid (23°C×7Days)	Variation(Tensile Strength)	%	-12	EN 60811
	Variation(Elongation)	%	-5	EN 60811
Resistance N-Sodium Hydroxide (23°C×7Days)	Variation(Tensile Strength)	%	-2	EN 60811
	Variation(Elongation)	%	-2	EN 60811
Flammability	LOI	%	35	ASTM D2863
Weathering/U Resistance			Pass	EN 50618
Ozone Resistance			Pass	EN 50396
Deformation test(131°C/30Min)(Thickness decrease)		%	30 ↓	
Smoke Density	Flame Mode (3mm Sheet)	Ds	90	ASTM E662
HOT/SET ( 250°C/15min 20N/cm <sup>2</sup> )	HOT Elongation	%	75	EN 60811
	SET Permanent	%	5	EN 60811
Halogen(HCL) Content		%	0.5 ↓	IEC 60754-1

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

## SH-300PV-EN

### 2 Processing Techniques

- SH-300PV-EN provides excellent surface and out-put with special extruder and screw (L/D: 24/1, CR: 2.0).
- The recommended extrusion conditions temperature is 150~210°C, but optimum operation conditions should be established depending on your facilities and requirements.
- Catalyst Master Batch is blended about 1~2 wt %

### 3 Extrusion Conditions

Zone	C1	C2	C3	C4	Neck	Head	Dies
Temp' (°C)	150	160	170	175	180	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.