# AEI SX539

### Crosslinked Polyethylene

### **AEI Compounds Limited**

### Message:

Silane crosslinkable semi-conducting compound for medium voltage cable screening applications

This is a silane crosslinkable semi-conducting polyethylene compound to be used in conjunction with silane crosslinkable insulation material for bonded shielding purposes. It is a single component system comprising a silane grafted ethylene polymer known as the graft compound SX539. Crosslinking occurs in the presence of moisture by migration of catalyst from the adjacent core insulation layer.

General Information				
Features	Semi-conductive			
	Crosslinkable			
Uses	Cable sheath			
	Wire and cable applications			
Agency Ratings	EC 1907/2006 (REACH)			
RoHS Compliance	RoHS compliance			
Forms	Particle			
Processing Method	Extrusion			
Physical	Nominal Value	Unit	Test Method	
Density	1.16	g/cm³	BS 2782 620A	
Gel Content	30	%	ASTM D2765	
Thermal deformation (120°C)	60	%	BS 6469 99.1	
Head Temperature	180	°C		
Mechanical	Nominal Value	Unit	Test Method	
Tensile Stress	13.0	МРа	IEC 60811-1-1	
Tensile Strain (Break)	150	%	IEC 60811-1-1	
Electrical	Nominal Value	Unit	Test Method	
Volume Resistivity			IEC 60502	
20°C	< 1.0E+2	ohms·cm	IEC 60502	
90°C	< 1.0E+3	ohms·cm	IEC 60502	
Additional Information				

Crosslinking or "Cure": The methods and duration of curing will normally be those applicable to the type of insulation material used and the radial thickness of the insulation. Curing temperature is limited to a maximum of 70°C.

Extrusion	Nominal Value	Unit
Drying Temperature	40.0 - 50.0	°C
Drying Time	> 16	hr
Cylinder Zone 1 Temp.	130	°C
Cylinder Zone 2 Temp.	170	°C
Cylinder Zone 3 Temp.	180	°C

Die Temperature 185 °C

### Extrusion instructions

Most modern thermoplastic extruders will process SX539 compound.

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### Recommended distributors for this material

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