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 application:	5			
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	MPa	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		

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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