

AEI SX528

Crosslinked Polyethylene
AEI Compounds Limited

Message:

Easily-strippable, semi-conducting, silane crosslinkable compound for medium voltage cable screening application
This is a silane crosslinkable semi-conducting polyethylene compound to be used in conjunction with Sioplas insulation material for easily-strippable core screening applications. To achieve easily-strippable properties it is necessary to apply SX528 to hot insulation, i.e. to extrude simultaneously with the insulation through a multi-layer (2 or 3 layer) extruder head. Crosslinking occurs in the presence of moisture by migration of catalyst from the adjacent core insulation layer.

General Information			
Features	Semi-conductive		
	Peelable		
	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	1.15	g/cm ³	BS 2782 620A
Gel Content	30	%	ASTM D2765
Thermal deformation (120°C)	70	%	BS 6469 99.1
Stripping Force (20°C)	20	N	BS 6622
Head Temperature	170	°C	
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	7.00	MPa	IEC 60811-1-1
Tensile Strain (Break)	300	%	IEC 60811-1-1
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity			IEC 60502
20°C	< 1.0E+3	ohms·cm	IEC 60502
90°C	< 1.0E+3	ohms·cm	IEC 60502
Additional Information	Nominal Value	Unit	Test Method
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 60-65°C.			
Extrusion	Nominal Value	Unit	
Drying Temperature	40.0 - 50.0	°C	
Drying Time	> 16	hr	
Cylinder Zone 1 Temp.	95.0	°C	

Cylinder Zone 2 Temp.	100	°C
Cylinder Zone 3 Temp.	110	°C
Die Temperature	170	°C

Extrusion instructions

Most modern thermoplastic extruders will process SX528.

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