

AEI SX522A:CM401 and SX522A:CM401CDS

Low Density Polyethylene

AEI Compounds Limited

Message:

Ambient cure, silane crosslinkable polyethylene for low voltage power cable insulation

This crosslinkable polyethylene compound is designed for the insulation of power cables; possessing outstanding extrusion properties at high output rates. The graft component SX522A is mixed with the crosslinking catalyst masterbatch CM401 generally in the ratio 95:5. It exhibits minimum point and die drool, low scorch characteristics and high production efficiency.

It can be cured in ambient conditions and is specifically designed for small and sector shaped conductors.

General Information			
Features	Crosslinkable		
Uses	Low voltage insulation		
	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	0.920	g/cm ³	BS 2782 620A
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.0	g/10 min	Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	18.0	MPa	IEC 60811-1-1
Tensile Strain (Break)	450	%	IEC 60811-1-1
Aging	Nominal Value	Unit	Test Method
Change in Tensile Strength (135°C, 168 hr)	7.0	%	IEC 60811-1-2
Change in Tensile Strain at Break (135°C, 168 hr)	-7.0	%	IEC 60811-1-2
Thermal	Nominal Value	Unit	Test Method
Cold bending (-70°C)	pass		IEC 60811-1-4
Thermoset ¹			IEC 60811-2-1
Elongation under load, 20N/cm ² : 200°C		%	IEC 60811-2-1
Permanent elongation after cooling	0.0	%	IEC 60811-2-1
Power factor-50Hz(23°C)	3.00E-4		IEC 60250
Cure Time - <100% Hot elongation ²			
800.0 µm	5.0	day	
1.50 mm	14.0	day	
Head Temperature	200	°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (20°C)	> 1.0E+16	ohms · cm	BS 6622

Dielectric Strength (20°C)	21	kV/mm	IEC 60243-1
Relative Permittivity (23°C, 50 Hz)	2.00		IEC 60250
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	130	°C	
Cylinder Zone 2 Temp.	150	°C	
Cylinder Zone 3 Temp.	170	°C	
Cylinder Zone 4 Temp.	190	°C	
Die Temperature	210	°C	
Extrusion instructions			
Most modern thermoplastic extruders will process SX522A:CM401 & CM401-2 compounds, particularly if a screw suitable for polyethylene extrusion is available.			
NOTE			

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| 1. | Cure assessment by hot set test
(forced cured at 80°C in water) |
| 2. | Cure assessment (ambient cure at
20°C and 50% humidity) |

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