AEI SX738:CM424

Crosslinked Polyethylene

AEI Compounds Limited

Message:

Low-smoke, low-toxicity, halogen-free, flame retardant, silane crosslinkable compound for the production of flexible heat shrinkable tubing.
SX738 is a low smoke, low fume, fire retardant silane grafted compound, curable by exposure to moist conditions. This is designed specifically for the production, by extrusion, of flame retardant halogen free heat shrinkable tubing. The graft component SX738 is mixed with a crosslinking catalyst masterbatch CM424 generally in the ratio 95:5.
The two component system SX738:CM424 combines ease of processing with the ability to achieve a degree of crosslinking compatible with good expansion and contraction.

General Information			
Additive	Flame retardancy		
Features	Low smoke Workability, good Crosslinkable Halogen-free Flame retardancy		
Uses	Pipe fittings		
Agency Ratings	EC 1907/2006 (REACH)		
RoHS Compliance	RoHS compliance		
Forms	Particle		
Processing Method	Extrusion		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.40	g/cm³	BS 2782 620A
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress	10.0	MPa	IEC 60811-1-1
Tensile Strain (Break)	200	%	IEC 60811-1-1
Aging	**Nominal Value**	**Unit**	**Test Method**
Change in Tensile Strength (135°C, 168 hr)	< 25	%	IEC 60811-1-2
Change in Tensile Strain at Break (135°C, 168 hr)	< 25	%	IEC 60811-1-2
Thermal	**Nominal Value**	**Unit**	**Test Method**
Temperature index	> 200	°C	ISO 4589-3
Conduction rate-of gases	13.0	µS/cm	IEC 60754-2
Corrosive gases in flue gas-pH	4.60		IEC 60754-2
Smoke Density		%	ASTM D2843
Halogen Acid Gas Evolution		%	IEC 60754-1
Hot Elongation - 35 lb/mm² (150°C)		%	Internal method
Head Temperature	190	°C	
Electrical	**Nominal Value**	**Unit**	**Test Method**

Volume Resistivity	1.0E+13	ohms·cm	IEC 60502
Dielectric Strength	14	kV/mm	IEC 60243-1
Flammability	**Nominal Value**	**Unit**	**Test Method**
Oxygen Index	26	%	ISO 4589-2
Additional Information	**Nominal Value**	**Unit**	**Test Method**
Crosslinking or Cure: A satisfactory cure can be obtained either by immersion in hot water or exposure to low pressure steam at a temperature up to 65°C			
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.	180	°C	
Die Temperature	190	°C	
Extrusion instructions			
Many modern thermoplastic extruders will process the material although a screw designed to give good homogenisation without excessive shear (which could cause unacceptable increases in melt temperature) should be used. An extruder with an L/D ratio (length/diameter) of 15-24 and an extruder screw of compression ratio 2-3:1 are recommended.			

Recommended distributors for this material

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