

Pexidan® J/T

Crosslinked Polyethylene

Saco Polymers

Message:

Low density moisture curable polyethylene compound for SAE J1128 Automotive wire applications.

Pexidan® J/T is a low density XLPE system curable by moisture and consists of a silane pre-grafted base compound A-3001 and a flame-retardant catalyst masterbatch CAT-012FR. Mixed and extruded in the proper proportions (60:40), the two components result in a material that is curable by exposure to 70-90°C hot water or even ambient moisture. Pexidan® J/T is designed to meet SAE J1128 standards for GXL, TXL and SXL type insulation. Pexidan® J/T is a RoHS-compliant system.

General Information			
Additive	Flame retardancy		
Features	Low density		
	Crosslinkable		
	Flame retardancy		
Uses	Wire and cable applications		
	Application in Automobile Field		
Agency Ratings	SAE J1128		
RoHS Compliance	RoHS compliance		
Forms	Particle		
Processing Method	Wire & Cable Extrusion		
	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.13	g/cm ³	ASTM D792
Degree of Crosslinking	65	%	ASTM D2765
Flame test-45 degree Flame Propagation Test	Pass		SAE J1128
Hot Elongation - elongation under load ¹ (150°C)	50	%	Internal method
Head Temperature	185	°C	
Screw cooling	neutral		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			SAE J1128
Fracture ²	15.2	MPa	SAE J1128
Fracture	15.9	MPa	SAE J1128
Tensile Elongation ³ (Break)	300	%	SAE J1128
Additional Information	Nominal Value	Unit	Test Method

Curing can be done in the following ways:

by immersion in hot water at 90-95°C

by exposure to low pressure steam

ambient atmospheric moisture

In all cases curing time depends on wall thickness, temperature, relative humidity and quantity of wire on the reel. Typical values reported above (except MFR) are obtained from 20 AWG wire with wall thickness of 0.015", cured in hot water (6 hours @ 95°C).

Extrusion	Nominal Value	Unit
Cylinder Zone 1 Temp.	154 - 171	°C
Cylinder Zone 2 Temp.	154 - 171	°C
Cylinder Zone 3 Temp.	154 - 171	°C
Cylinder Zone 4 Temp.	154 - 171	°C
Die Temperature	185	°C

NOTE

1. 15 minutes, 0.2 N/mm² load
2. After thermal ageing (7days @ 155°C)
3. After thermal ageing (7days @ 155°C)

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