Pexidan® H/T

Crosslinked Polyethylene

Saco Polymers

Message:

Low density moisture curable polyethylene compound for 125°C/150°C appliance wire and 125°C coil-lead applications. Pexidan® H/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 (Sioplas method). Mixed in the proper proportions (67/33) the two components result, after extrusion, in a material curable by exposure to hot water at 70-90°C or even ambient moisture. Pexida n® H/T is listed with CSA for AWM and CL-1251/1252 and is suitable for UL AWM styles 3173 and 3321. See below for a more complete list of suitable AWM styles. Pexidan® H/T is a RoHS-compliant system.

In addition to common AWM styles 3173 and 3321, Pexidan® H/T is suitable for the following AWM XLPE styles: 3176, 3168, 3182, 3194, 3195, 3196, 3199, 3289, 3290, 3295, 3296, 3297, 3298, 3300, 3343, 3344, and 3578

General Information	
Additive	Flame retardancy
Features	Low density
	Crosslinkable
	Flame retardancy
Uses	Wire and cable applications
RoHS Compliance	RoHS compliance
Forms	Particle
Processing Method	Wire & Cable Extrusion
	Extrusion

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.08	g/cm ³	ASTM D792
Degree of Crosslinking	68	%	ASTM D2765
Deformation	10	%	UL 758
Flame test-Horizontal	Pass		CSA FT-2
Hot Elongation - elongation under load ¹			
(150°C)	45	%	Internal method
Head Temperature	185	°C	
Screw cooling	neutral		
Screw cooling	neutrai		
Mechanical	Nominal Value	Unit	Test Method
Mechanical Tensile Strength	Nominal Value	Unit	Test Method
Mechanical Tensile Strength Fracture ²	Nominal Value	Unit	Test Method CSA 22.2 No. 210.2
Mechanical Tensile Strength Fracture ² Fracture	Nominal Value 15.2 15.9	Unit MPa MPa	Test Method CSA 22.2 No. 210.2 CSA 22.2 No. 210.2
Mechanical Tensile Strength Fracture ² Fracture Tensile Elongation ³ (Break)	Nominal Value 15.2 15.9 300	Unit MPa MPa %	Test Method CSA 22.2 No. 210.2 CSA 22.2 No. 210.2 CSA 22.2 No. 210.2
Mechanical Tensile Strength Fracture ² Fracture Tensile Elongation ³ (Break) Thermal	Nominal Value 15.2 15.9 300 Nominal Value	Unit MPa MPa % Unit	Test Method CSA 22.2 No. 210.2 CSA 22.2 No. 210.2 CSA 22.2 No. 210.2 Test Method
Mechanical Tensile Strength Fracture ² Fracture Tensile Elongation ³ (Break) Thermal Brittleness Temperature	Nominal Value 15.2 15.9 300 Nominal Value < -50.0	Unit MPa MPa % Unit	Test Method CSA 22.2 No. 210.2 CSA 22.2 No. 210.2 CSA 22.2 No. 210.2 Test Method ASTM D746

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	℃	
NOTE			
1.	15 minutes, 0.2 N/mm ² load		
2.	After thermal ageing (7days @180°C)		
3.	After thermal ageing (7days @180°C)		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

