Pexidan® V/T-2

Crosslinked Polyethylene

Saco Polymers

Message:

Low density moisture curable polyethylene compound for low voltage building wire, control cable and cable tray applications (UL styles SIS, XHH, XHHW, XHHW-2, RHH, RHW, and RHW-2 VW-1).
Pexidan® V/T-2 is a low density XLPE System curable by moisture and consists of a silane pre-grafted base compound A-3001 and a catalyst masterbatch CAT-045FR (Sioplas method). Mixed and extruded in the proper proportions (50/50), the two components result in a material that is curable by exposure to hot water. Pexidan® V/T is a RoHS-compliant system.

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

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.32	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.0	g/10 min	ASTM D1238
Degree of Crosslinking	60	%	ASTM D2765
Deformation	5.0	%	UL 1581
Dielectric Breakdown			UL 1581
--	36000	V	UL 1581
after glancing impact	11000	V	UL 1581
Insulation Resistance			UL 1581
15°C	10000	Mohms/1000 ft	UL 1581
90°C	6100	Mohms/1000 ft	UL 1581
after 12 weeks : 90°C	3600	Mohms/1000 ft	UL 1581
Crushing Test	585134	g	UL 1581
Hot Elongation - elongation under load (150°C) [1]	45	%	Internal method
Head Temperature	185	°C	
Screw cooling	neutral		

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			

Fracture [2]	15.2	MPa	UL 1581
Fracture [3]	14.5	MPa	UL 1581
Fracture [4]	16.5	MPa	UL 1581
Tensile Elongation			
Fracture [5]	400	%	UL 1581
Fracture [6]	380	%	UL 1581

Electrical	Nominal Value	Unit	Test Method
Relative Permittivity (90°C)	3.10		UL 1581

Flammability	Nominal Value	Unit	Test Method
Oxygen Index (4.00 mm)	27	%	ASTM D2863

Additional Information	Nominal Value	Unit	Test Method

Curing can be done in the following ways:
by immersion in hot water at 70-90°C
by exposure to low pressure steam
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 a 14 AWG wire with 30-mil wall thickness, 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/mm^2 load
2.	After 60 day oil @ 75°C
3.	After 30 day gasoline @ 23°C
4.	After thermal ageing (7days @121°C)
5.	After 60 day oil @ 75°C
6.	After 30 day gasoline @ 23°C

Recommended distributors for this material

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