SPECIAL HIGH, S.L.
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FICHA TÉCNICA:

Tubo termorretráctil de poliolefina TRMT-HTM (36KV) (Alto Voltaje)

Color: Rojo

2:1

Características y aplicación:

TRMT-HTM se fabrica a partir de compuestos libres de halógenos. Puede proporcionar una alta resistencia al "tracking" y el arco eléctrico, así como a mejorar las propiedades de aislamiento de las pletinas de cobre.

- De 1KV a 36KV.
- Retardante de llama.
- Reduce los espacios entre pletinas.
- Protege contra descargas eléctricas accidentales.
- Anti-tracking.
- Libre de halógenos.
- Temperatura continua: -40˚C a 125˚C (160˚C momentáneamente)
- Temperatura de contracción: 120˚C

Standard

ASTM D 2671	Standard Test Methods for Heat-Shrinkable Tubing for Electrical Use1
IEC 60243-1-1998	Electrical strength of insulating
IEC 60250:1969	MOD Recommended methods for the determination of the permittivity and dielectric dissipation fatoer of electrical insulating materials at power,audio and radio frequencies including mater wavelengths
IEC 60243-1:2013	Electric strength of insulating materials
IEC 60093:1980	Methods of test for volume resistivity and surface resistivity of solid insulating materials
ISO 4589:1996	Plastics-Determination of burning behaviour by oxygen index
ISO 868:2003	Plastics and ebonite- Determination of indentation hardness by means of a durometer(shore hardness)
IEC 62271-1:2007	Common specifications for high-voltage switchgear stabdards
IEC 60502-2-2:2005	Power cables with extruded insulation and their accessories for rated voltages from 1kV(Um=1.2kV)up to 30kV(Um=36kV)-Part 2:Cables for rated voltages from 6kV(Um=7.2kV)up to 30kV(Um=36kV)

TECHNICAL DATA:

PROPERTY	STANDARD	TEST METHOD
Tensile strength/ MPa	≥8.0	ASTM D 2671
Elongation at break/ %	≥300	ASTM D 2671
Tensile strength after aging/ MPa	±20%	ASTM D 2671 (130˚C x 168h)
Elongation at break after aging/ %	±20%	
Longitudinal shrinkage/ %	±10%	ASTM D 2671
Radical shrinkage/ %	65%	ASTM D 2671
Eccentricity/ %	30%	UL 224
Water Absorption capacity/ %	≤0.5	ISO 62-1980
Heat Shock (160º, 4h)	No Cracking	ASTM D 2671
Low temperature resistance (-40˚C, 4h)	No Cracking	ASTM D 2671
Breakdown strength /kV/mm	≥20	IEC 60243-1-2013
Volume Resistivity/ Ω·cm	≥4.3x10^{14}	IEC 60093: 1980
Hardness (Shore A)	≤90	ISO 868:2003

CATÁLOGO/DIMENSIONES:

MEDIDA (mm)	DIÁ. INTERIOR ANTES DE CONTRAER (mm)	DESPUÉS DE CONTRAER	
		DIÁ. INTERIOR (mm)	Espesor de pared (mm)
Ø20	21±2.0	≤8	4.0±0.4
Ø25	26±2.0	≤10	4.0±0.4
Ø30	31±2.0	≤12	4.0±0.4
Ø40	41±2.0	≤16	4.0±0.4
Ø50	52±3.0	≤20	4.0±0.4
Ø65	67±3.0	≤26	4.0±0.4
Ø75	77±3.0	≤30	4.0±0.4
Ø85	87±4.0	≤34	4.0±0.4
Ø100	102±4.0	≤40	4.0±0.4
Ø120	122±4.0	≤48	4.0±0.4
Ø150	152±4.0	≤60	4.0±0.4
Ø180	180±5.0	≤72	4.0±0.4
Ø210	210±5.0	≤110	4.0±0.4

MATERIAL TESTIFY:

RAW MATERIAL NAME		USING AIM	COTNET
NAME	FORMULA		
Ethylene-vinyl acetate copolymer	(CH2-CH2) m-(CH2-CH-C00CH3)n	Main Material	50%
Magnesium hydroxid	Mg (OH)2	Flame-retardant Material	35%
DBDPE	C14H4Br10	Flame-retardant Material	10%
Color Material	Pigment	Colorant	5%