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## *FICHA TÉCNICA:*

# Tubo termorretráctil de poliolefina TRMT-BTM (24KV) (Medio Voltaje)

RoHS COMPLIANT

3:1

Color: Rojo

**Características y aplicación:**

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

- De 1KV a 24KV.
- Retardante de llama.
- Reduce los espacios entre pletinas.
- Protege de descargas eléctricas accidentales.
- Anti-tracking.
- Libre de halógenos.
- Temperatura continua: -40˚C a 125˚C (160˚C momentáneamente)
- Tensión de aislamiento: 2.400V continuos.
- 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) |
| Ø15 | 16±2.0 | ≤6 | 1.90±0.3 |
| Ø20 | 21±2.0 | ≤8 | 2.20±0.3 |
| Ø25 | 26±2.0 | ≤10 | 2.20±0.3 |
| Ø30 | 31±2.0 | ≤12 | 2.20±0.3 |
| Ø40 | 41±2.0 | ≤16 | 2.35±0.4 |
| Ø50 | 52±3.0 | ≤20 | 2.35±0.4 |
| Ø65 | 67±3.0 | ≤26 | 2.35±0.4 |
| Ø75 | 77±3.0 | ≤30 | 2.35±0.4 |
| Ø85 | 87±4.0 | ≤34 | 2.35±0.4 |
| Ø100 | 102±4.0 | ≤40 | 2.35±0.4 |
| Ø120 | 122±4.0 | ≤50 | 2.80±0.4 |
| Ø180 | 180±5.0 | ≤70 | 2.80±0.4 |
| Ø210 | 210±5.0 | ≤110 | 2.80±0.4 |

**MATERIAL TESTIFY:**

| RAW MATERIAL NAME | | USING AIM | CONTENT |
|---|---|---|---|
| NAME | MAKE UP OF | | |
| 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% |