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**KOSOO K-2(3X)**

**Flexible, flame-retardant, high-shrink-ratio polyolefin tubing**

* **Application**

KOSOO K-2 (3X) is flexible, flame-retardant, high-shrink-ratio irradiated crosslinking heat-shrinkable modified polyolefin tubing. K-2(3X) has 3:1 shrink ratio which is needed to cover larger size differences like harnesses with installed connectors. It is used for insulation protection, bundling or capsule of wire terminals and components with larger size differences.

* **Features/Benefits**

·Shrink ratio: 3:1.

·Flexible, highly flame-retardant.

·Excellent physical, chemical and electrical properties and high reliability.

·Abrasion and fluids resistance.

·Free of PCBs, PCPs, polybrominated biphenyls (PBBs), polybrominated biphenyl oxides and ethers (PBBOs, PBBEs and PBDEs) and toxic heavy metal compounds, which are classified as environmentally hazardous substances. Conform to European RoHS environmental directive.

* **Operating Temperature Range**

Operating temperature range: -55℃~125℃

Minimum shrink temperature: 70℃

Minimum full recovery temperature: 110℃

* **Standards/Approvals**

UL224 E214175 125℃ 600V VW-1

* **Specification values**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Property | Requirement | Test method | Typical data |
| Physical： | Concentricity | 70% min. | ASTM D 2671 | ≥70% |
|  | Tensile strength | 10.4MPa min. | ASTM D 638 | ≥14.0MPa |
|  | Elongation | 200% min. | ASTM D 638 | ≥400% |
|  | Heat shock | No cracking, dripping or flowing | ASTM D 2671 | Pass |
|  | Low temperature flexibility | No cracking | ASTM D 2671 | Pass |
| Aging 158℃,168hrs |  |  |  |
| Tensile strength after aging | 70% of original min. | ASTM D 638 | ≥90% |
| Elongation after aging | 100% min. | ASTM D 638 | ≥300% |
| Electrical： | Dielectric voltage withstand | 2500V, 60sec no breakdown | UL224 | Pass |
|  Dielectric strength | 19.7kV/mm min. | ASTM D 2671 | 25kV/mm |
|  Volume resistivity | 1014Ω·cm min. | ASTM D 876 | ≥1014Ω·cm |
| Chemical： | Corrosion | No corrosion | ASTM D 2671 | Pass |
|  |  Flammability | VW-1 | UL224 | Pass |

* **Product sizes**

|  |  |  |  |
| --- | --- | --- | --- |
| Size（mm） | As supplied(mm) | After recovery(mm) | Standard length(m/spool)) |
| Inside diameter | Wall thickness | Inside diameter(max.) | Wall thickness |
| 1.5/0.5 | 1.8±0.3 | 0.20±0.05 | 0.5 | 0.50±0.10 | 200 |
| 3/1 | 3.3±0.3 | 0.20±0.05 | 1.0 | 0.60±0.10 | 200 |
| 6/2 | 6.5±0.3 | 0.25±0.05 | 2.0 | 0.70±0.10 | 100 |
| 9/3 | 9.5±0.4 | 0.30±0.07 | 3.0 | 0.80±0.15 | 100 |
| 12/4 | 12.5±0.4 | 0.30±0.07 | 4.0 | 0.85±0.15 | 100 |
| 18/6 | 18.5±0.5 | 0.35±0.07 | 6.0 | 0.90±0.15  | 50 |
| 24/8 | 26.0±1.0 | 0.45±0.13  | 8.0 | 1.20±0.20 | 50 |
| 40/13 | 41.5±1.0 | 0.45±0.13 | 13.0 | 1.25±0.20 | 50 |

* **Ordering Information**

# **Color**

Standard: Black (-BK), white (-WH), red (-RD), blue (-BL), yellow (-YL), green (-GR)

Nonstandard: Available upon request.

# **Nonstandard size**

Special sizes are available upon request.

# **Standard packaging**

On spools. Cut pieces are available upon request.

# **Ordering description**

Specify product type, size (mm or inch) and color.