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**KOSOO K-1**

**Flexible, shiny general-purpose polyolefin tubing**

* **Application**

KOSOO K-1 is an irradiated cross-linked commercial grade polyolefin heat shrinkable tubing with general purpose applications such as wire-harness, insulation of wire bundles, insulation and strain relief of wire terminations and connections, capsule and anti-corrosion protection, etc. It is rated for use up to 105℃ and 600V.

* **Features/Benefits**

·Shrink ratio: 2:1.

·Flexible, low shrink temperature.

·Excellent physical and electrical performance.

·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℃~105℃

Minimum shrink temperature: 60℃

Minimum full recovery temperature: 100℃

* **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% |
| Electrical： | Dielectric voltage withstand | 2500V, 60sec no breakdown | UL224 | Pass |
|  Volume resistivity | 1014Ω·cm min. | ASTM D 876 | ≥1014Ω·cm |

* **Product sizes**

·**Inch size** mm/inch

|  |  |  |  |
| --- | --- | --- | --- |
| Size | Inside diameter | Wall thickness | Standard length(m/spool) |
| As supplied(min.) | After recovery(max.) | After recovery |
| 3/64 | 1.2（0.046） | 0.6（0.023） | 0.40±0.08（0.016±0.003） | 200 |
| 1/16 | 1.6（0.063） | 0.8（0.031） | 0.43±0.08（0.017±0.003） | 200 |
| 3/32 | 2.4（0.093） | 1.2（0.046） | 0.51±0.08（0.020±0.003） | 200 |
| 1/8 | 3.2（0.125） | 1.6（0.062） | 0.51±0.08（0.020±0.003） | 200 |
| 3/16 | 4.8（0.187） | 2.4（0.093） | 0.51±0.08（0.020±0.003） | 100 |
| 1/4 | 6.4（0.250） | 3.2（0.125） | 0.64±0.08（0.025±0.003） | 100 |
| 3/8 | 9.5（0.375） | 4.8（0.187） | 0.64±0.08（0.025±0.003） | 100 |
| 1/2 | 12.7（0.500） | 6.4（0.250） | 0.64±0.08（0.025±0.003） | 100 |
| 3/4 | 19.1（0.750） | 9.5（0.375） | 0.76±0.08（0.030±0.003） | 50 |
| 1 | 25.4（1.000） | 12.7（0.500） | 0.89±0.12（0.035±0.005） | 50 |
| 1 1/4 | 31.8（1.250） | 15.9（0.625） | 1.02±0.15（0.040±0.006） | 50 |
| 1 1/2 | 38.1（1.500） | 19.1（0.750） | 1.02±0.15（0.040±0.006） | 50 |
| 2  | 50.8（2.000） | 25.4（1.000） | 1.14±0.16（0.045±0.007） | 50 |

·**Metric size**

|  |  |  |  |
| --- | --- | --- | --- |
| Size(mm) | As supplied(mm) | After recovery (mm) | Standard length (m/spool) |
| Inside diameter | Wall thickness | Inside diameter(max.) | Wall thickness(min.) |
| Φ0.8 | 1.0±0.2 | 0.15±0.05 | 0.50 | 0.25 | 200 |
| Φ1.0 | 1.5±0.3 | 0.20±0.05 | 0.60 | 0.33 | 200 |
| Φ1.5 | 2.0±0.3 | 0.20±0.05 | 0.75 | 0.36 | 200 |
| Φ2.0 | 2.5±0.3 | 0.20±0.05 | 1.00 | 0.44 | 200 |
| Φ2.5 | 3.0±0.3 | 0.25±0.05 | 1.25 | 0.44 | 200 |
| Φ3.0 | 3.5±0.3 | 0.25±0.05 | 1.50 | 0.44 | 200 |
| Φ3.5 | 4.0±0.3 | 0.25±0.05 | 1.75 | 0.44 | 200 |
| Φ4.0 | 4.5±0.3 | 0.25±0.05 | 2.00 | 0.44 | 200 |
| Φ4.5 | 5.0±0.3 | 0.25±0.05 | 2.25 | 0.44 | 200 |
| Φ5.0 | 5.5±0.3 | 0.28±0.05 | 2.50 | 0.56 | 100 |
| Φ6.0 | 6.5±0.3 | 0.28±0.05 | 3.00 | 0.56 | 100 |
| Φ7.0 | 7.6±0.3 | 0.30±0.07 | 3.50 | 0.56 | 100 |
| Φ8.0 | 8.6±0.3 | 0.30±0.07 | 4.00 | 0.56 | 100 |
| Φ9.0 | 9.6±0.3 | 0.30±0.07 | 4.50 | 0.56 | 100 |
| Φ10.0 | 10.7±0.4 | 0.30±0.07 | 5.00 | 0.56 | 100 |
| Φ11.0 | 11.7±0.4 | 0.30±0.07 | 5.50 | 0.56 | 100 |
| Φ12.0 | 12.7±0.4 | 0.30±0.07 | 6.00 | 0.56 | 100 |
| Φ13.0 | 13.7±0.4 | 0.35±0.08 | 6.50 | 0.69 | 100 |
| Φ14.0 | 14.7±0.4 | 0.35±0.08 | 7.00 | 0.69 | 100 |
| Φ15.0 | 15.7±0.5 | 0.35±0.08 | 7.50 | 0.69 | 100 |
| Φ16.0 | 16.7±0.5 | 0.35±0.08 | 8.00 | 0.69 | 100 |
| Φ18.0 | 19.0±0.5 | 0.40±0.10 | 9.00 | 0.77 | 100 |
| Φ20.0 | 21.0±0.5 | 0.40±0.10 | 10.00 | 0.77 | 50 |
| Φ22.0 | 23.0±0.5 | 0.40±0.10 | 11.00 | 0.77 | 50 |
| Φ25.0 | 26.0±1.0 | 0.45±0.10 | 12.50 | 0.87 | 50 |
| Φ28.0 | 29.0±1.0 | 0.45±0.10 | 14.00 | 0.87 | 50 |
| Φ30.0 | 31.5±1.0 | 0.45±0.10 | 15.00 | 0.87 | 50 |
| Φ35.0 | 36.5±1.0 | 0.50±0.10 | 17.50 | 0.97 | 50 |
| Φ40.0 | 41.5±1.0 | 0.50±0.10 | 20.00 | 0.97 | 50 |
| Φ50.0 | 51.5±1.0 | 0.55±0.10 | 25.00 | 0.97 | 50 |

* **Ordering Information**

# **Color**

Standard: Shiny black(-BK), clear(-CL), white(-WH), red (-RD), blue(-BL) , yellow(-YL), green(-GR)

Nonstandard: Brown (- BR), orange (- OR), violet (- VT), gray (- GY)

# **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.