Cable Ties and Fixings
Cable Ties Inside Serrated

1.1

Cable Ties for higher chemical resistance and temperatures up to +170 °C

T-Series in E/TFE (Tefzel®) blue

E/TFE or Tefzel® cable ties are used when higher chemical resistance and/or temperatures up to +170 °C are required. These ties are most likely chosen for challenging applications in industries like food and beverage, aerospace, automotive or railway.

Features and benefits
• Blue cable tie offering high chemical resistance
• Suitable for applications with temperatures up to 170 °C
• Resistant to radioactivity and UV light
• E/TFE is a non hydroscopic material, no moisture absorption
• Complying with UL94 V0 requirements

T-Series E/TFE cable ties – for higher chemical resistance up to +170 °C.

For more information on E/TFE mounts please refer to KR-Series on page 148.

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<td>T18R</td>
<td>2.5</td>
<td>100.0</td>
<td>22.0</td>
<td>E/TFE</td>
<td>Blue (BU)</td>
<td>100 pcs.</td>
<td>2-4-6</td>
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<td>100 pcs.</td>
<td>2-10</td>
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<td>T120R</td>
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<td>105.0</td>
<td>E/TFE</td>
<td>Blue (BU)</td>
<td>50 pcs.</td>
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All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available. General linguistic usage for cable ties made from raw material E/TFE is Tefzel®. In addition to Tefzel® from DuPont HellermannTyton is also using equivalent E/TFE raw material from other suppliers.

Recommended Tools

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<tr>
<td>MK20</td>
<td>MK21</td>
<td>MK3P</td>
<td>MK3PNSP2</td>
<td>EVO7</td>
<td>MK7HT</td>
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For more information on toolings please refer to the Application Tooling chapter.

For product specific approvals and specifications please refer to the Appendix.
# Material Specification Overview

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</thead>
</table>
| Aluminium-alloy | AL | -40 °C to +180 °C | Natural (NA) | | • Corrosion resistant  
  • Antimagnetic | RoHS |
| Chloroprene | CR | -20 °C to +80 °C | Black (BK) | | • Weather-resistant  
  • High yield strength | RoHS |
| Ethylene Tetrafluoroethylene (Tefzel®) | E/TFE | -80 °C to +170 °C | Blue (BU) UL 94 V0 | | • Resistance to radioactivity  
  • UV- resistant, not moisture sensitive  
  • Good chemical resistance to: acids, bases, oxidizing agents | RoHS |
| Polyacetal | POM | -40 °C to +90 °C, (+110 °C, 500 h) | Natural (NA) UL 94 HB | | • Limited brittleness sensitivity  
  • Flexible at low temperature  
  • Not moisture sensitive  
  • Robust on impacts | RoHS |
| Polyamide 11 | PA11 | -40 °C to +85 °C, (+105 °C, 500 h) | Black (BK) UL 94 HB | | • Bio-plastic, derived from vegetable oil  
  • Strong impact resistance at low temperature  
  • Very low moisture absorption  
  • Weather-resistant  
  • Good chemical resistance | HF RoHS |
| Polyamide 12 | PA12 | -40 °C to +85 °C, (+105 °C, 500 h) | Black (BK) UL 94 HB | | • Good chemical resistance to: acids, bases, oxidizing agents  
  • UV- resistant | HF RoHS |
| Polyamide 4.6 | PA46 | -40 °C to +150 °C, (5000 h), +195 °C (500 h) | Natural (NA), Grey (GY) UL 94 V2 | | • Resistance to high temperatures  
  • Very moisture sensitive  
  • Low smoke sensitivity | HF LFH RoHS |
| Polyamide 6 | PA6 | -40 °C to +80 °C | Black (BK) UL 94 V2 | | • High yield strength | RoHS |
| Polyamide 6, high impact modified | PA6HIR | -40 °C to +80 °C | Black (BK) UL 94 HB | | • Limited brittleness sensitivity  
  • Higher flexibility at low temperature | RoHS |
| Polyamide 6.6 | PA66 | -40 °C to +85 °C, (+105 °C, 500 h) | Black (BK), Natural (NA) UL 94 V2 | | • High yield strength | HF RoHS |
| Polyamide 6.6, glass-fibre reinforced | PA66GF13, PA66GF15 | -40 °C to +105 °C | Black (BK) UL 94 HB | | • Good resistance to: lubricants, vehicle fuel, salt water and a lot of solvent | HF RoHS |
| Polyamide 6.6, heat and UV stabilised | PA66HSW | -40 °C to +105 °C | Black (BK) UL 94 V2 | | • High yield strength  
  • Modified elevated max. temperature  
  • UV-resistant | HF RoHS |
| Polyamide 6.6, heat stabilised | PA66HS | -40 °C to +105 °C | Black (BK), Natural (NA) UL 94 V2 | | • High yield strength  
  • Modified elevated max. temperature | HF RoHS |
| Polyamide 6.6, high impact modified | PA66HIR | -40 °C to +80 °C, (+105 °C, 500 h) | Black (BK) UL 94 HB | | • Limited brittleness sensitivity  
  • Higher flexibility at low temperature | RoHS |
| Polyamide 6.6, high impact modified, heat and UV stabilised | PA66HIRHSW | -40 °C to +110 °C | Black (BK) UL 94 HB | | • Limited brittleness sensitivity  
  • Higher flexibility at low temperature  
  • Modified elevated max. temperature  
  • High yield strength, UV-resistant | RoHS |
| Polyamide 6.6, high impact modified, heat stabilised | PA66HIRHS | -40 °C to +105 °C | Black (BK) UL 94 HB | | • Limited brittleness sensitivity  
  • Higher flexibility at low temperature  
  • Modified elevated max. temperature | RoHS |
| Polyamide 6.6, high impact modified, ScanBlack | PA66HIR(S) | -40 °C to +80 °C, (+105 °C, 500 h) | Black (BK) UL 94 HB | | • Limited brittleness sensitivity  
  • Higher flexibility at low temperature | RoHS |
| Polyamide 6.6, UV-resistant | PA66W | -40 °C to +85 °C, (+105 °C, 500 h) | Black (BK) UL 94 V2 | | • High yield strength  
  • UV-resistant | HF RoHS |
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</table>
| Polyamide 6.6, with metal particles | PA66MP | -40 °C to +85 °C, (+105 °C, 500 h) | Blue (BU) | UL 94 HB | • High yield strength  
• Metal and X-Ray detectable | RoHS |
| Polyamide 6.6, with metal particles | PA66MP+ | -40 °C to +85 °C | Blue (BU) | not flame retardant | • High yield strength  
• Metal and x-ray detectable | RoHS |
| Polyamide 6.6 V0 | PA66V0 | -40 °C to +85 °C | White (WH) | UL 94 V0 | • High yield strength  
• Low smoke emission | LFH, RoHS |
| Polyester | SP | -50 °C to +150 °C | Black (BK) | halogen free | • UV-resistant  
• Good chemical resistance to: most acids, alkaliks and oils | LFH, RoHS |
| Polyetheretherketone | PEEK | -55 °C to +240 °C | Beige (BGE) | UL 94 V0 | • Resistance to radioactivity  
• Not moisture sensitive  
• Good chemical resistance to: acids, bases, oxidizing agents | LFH, RoHS |
| Polyethylene | PE | -40 °C to +50 °C | Black (BK), Grey (GY) | UL 94 HB | • Low moisture absorption  
• Good chemical oilresistance to: most acids, alcohol and oils | RoHS |
| Polyolefin | PO | -40 °C to +90 °C | Black (BK) | UL 94 V0 | • Low smoke emissions | RoHS |
| Polypropylene | PP | -40 °C to +115 °C | Black (BK), Natural (NA) | UL 94 HB | • Floats in water  
• Moderate yield strength  
• Good chemical resistance to: organic acids | RoHS |
| Polypropylene, Ethylene-Propylene-Dien-Terpolymer-rubber free of Nitrosamine | PP, EPDM | -20 °C to +95 °C | Black (BK), Natural (NA) | UL 94 HB | • Good resistance to high temperatures  
• Good chemical and abrasion resistance | RoHS |
| Polypropylene with metal particles | PPMP | -40 °C to +115 °C | Blue (BU) | UL 94 HB | • Metal and X-Ray detectable  
• Heat resistant  
• Moderate yield strength  
• Good chemical resistance | RoHS |
| Polypropylene with metal particles | PPMP+ | -40 °C to +85 °C | Blue (BU) | not flame retardant | • High yield strength  
• Metal and x-ray detectable | RoHS |
| Polyvinylchloride | PVC | -10 °C to +70 °C | Black (BK), Natural (NA) | UL 94 V0 | • Low moisture absorption  
• Good chemical resistance to: acids, ethanol and oil | RoHS |
| Stainless Steel | SS304, SS316 | -80 °C to +538 °C | Natural (NA) | non-burning | • Corrosion resistant  
• Antimagnetic  
• Weather resistant  
• Outstanding chemical resistance | LFH, RoHS |
| Thermoplastic Polyurethane | TPU | -40 °C to +85 °C | Black (BK) | UL 94 HB | • High elastic  
• Good chemical resistance to: acids, bases and oxidizing agents | RoHS |

**More colours on request.**

*HF = Halogenfree  
LFH = Limited Fire Hazard  
RoHS = Restriction of Hazardous Substances*