Cable Ties and Fixings
Cable Ties Inside Serrated

**Cable Ties in-between size to T-Series**

**LK-Series natural and black**

For bundling and securing cables, pipes, hoses and other elements. These cable ties can be used for a countless number of applications. The LK-Series is similar to T-Series but offers in-between sizes to fit individual customer needs.

**Features and benefits**

- Inside serrated cable ties for a strong hold around bundles
- Various materials and sizes are available
- High tensile strength with very low insertion force
- Easy application either manually or with an application tool

**Material specification please see page 26.**

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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.

**Recommended Tools**

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<th>3</th>
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<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

<table>
<thead>
<tr>
<th>MATERIAL</th>
<th>Material Shortcut</th>
<th>Operating Temperature</th>
<th>Colour**</th>
<th>Flammability</th>
<th>Material Properties*</th>
<th>Material Specifications</th>
</tr>
</thead>
</table>
| Aluminium alloy | AL | -40 °C to +180 °C | Natural (NA) |  | • Corrosion resistant  
• Antimagnetic | RoHS |
| Chloroprene rubber | 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 |
| Polytetrafluoroethylene (PTFE) | PTFE | -150 °C to +260 °C | Natural (NA) |  | • High temperature resistance  
• Low smoke sensitivity  
• UV resistant | 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 impact | RoHS |
| Polyamide 11 | PA11 | -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 12 | PA12 | -40 °C to +85 °C, (+105 °C, 500 h) | Black (BK) UL 94 HB |  | • Resistance to high temperatures  
• Very moisture sensitive  
• Low smoke sensitivity | HF  
RoHS |
| Polyamide 4.6 | PA46 | -40 °C to +130 °C, (+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  
• Modified elevated maximum temperature  
• UV resistant | HF  
RoHS |
| Polyamide 6.6 glass-fibre reinforced | PA66GF13, PA66GF15 | -40 °C to +105 °C | Black (BK) UL 94 HB |  | • Good resistance to lubricants, fuels, salt water and solvents | 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 maximum 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 maximum 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 maximum 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 maximum temperature | RoHS |
| Polyamide 6.6 high impact modified, scan black | PA66HIR(S) | -40 °C to +80 °C, (+105 °C, 500 h) | Black (BK) UL 94 HB |  | • Limited brittleness sensitivity  
• Higher flexibility at low temperature | HF  
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 |
### Material Information

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</thead>
</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 | RoHS |
| Polyester | SP | -50 °C to +150 °C | Black (BK) | | • UV resistant  
• Good chemical resistance to most acids, bases and oils | 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, oxidising agents | RoHS |
| Polyethylene | PE | -40 °C to +50 °C | Black (BK), Gre (GY) | UL 94 HB | • Low moisture absorption  
• Good chemical resistance to most acids, bases, alcohol, oils | RoHS |
| Polyolefin | PO | -40 °C to +90 °C | Black (BK) | UL 94 V0 | • Low smoke emission | 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 acids, bases and solvents | RoHS |
| Polypropylene, Ethylene Propylene Diene Terpolymer rubber free of Nitrosamine | PP, EPDM | -20 °C to +95 °C | Black (BK) | UL 94 HB | • Good resistance to high temperature  
• 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, bases, salts, alcohol, oils | RoHS |
| Stainless Steel, Stainless Steel | SS304, SS316 | -80 °C to +538 °C | Natural (NA) | Non burning | • Corrosion resistant  
• Antimagnetic  
• Weather resistant  
• Chemical resistance  
• SS316 also resistant against seawater, salt spray and anorganic acids | RoHS |
| Thermoplastic Polyurethane | TPU | -40 °C to +85 °C | Black (BK) | UL 94 HB | • High elasticity  
• Good chemical resistance to acids, bases and oxidising agents | RoHS |

**Further colours available on request.**

**These details are only guide values. They should not be regarded as an exhaustive material specification and are no substitute for suitability tests. Please see our datasheets for further details.**

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

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Tefzel® is a registered trademark of DuPont. General linguistic usage for cable ties made from raw material E/TFE is Tefzel®. Tie. In addition to Tefzel® from DuPont HellermannTyton also uses equivalent E/TFE raw material from other suppliers.

*Further colours available on request.*