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## Snapper hose clips for tubes and harnesses

**SNP-Series**

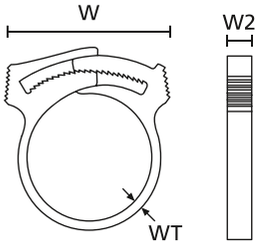
Our SNP range can be used as an alternative to metal hose clamps. Snapper can be used in markets as diverse as automotive, agriculture, white goods, venting systems, pumps and hydraulic systems to medical engineering.

**Features and benefits**

- Releasable and reusable plastic hose clamps
- Self-locking
- Releasable by giving a lateral movement to the 'head'
- Installation by hand possible
- Installation with processing tool for a secure tensioning
- For higher operating temperatures: Glass Filled PA66



*SNP - Snapper Hose Clips range.*




*SNP - Snapper Hose Clip (front view)*

*SNP Clip (side view)*

**SNP Snappers are also available on request in material PA66HS and PA46.**

| TYPE | Bundle Ø min. | Bundle Ø max. | Width (W) min. | Width (W) max. | Width (W2) | Wall (WT) | Material | Colour | Article-No. |
|---|---|---|---|---|---|---|---|---|---|
| **SNP1** | 6.0 | 6.5 | 8.33 | 11.73 | 3.8 | 1.00 | POM | White (WH) | 190-00022 |
| | 6.0 | 6.8 | 8.40 | 11.70 | 3.8 | 1.00 | PA66GF13 | Black (BK) | 192-10010 |
| **SNP2(E)** | 8.7 | 10.0 | 17.00 | 21.00 | 6.0 | 1.50 | POM | Natural (NA) | 191-10029 |
| **SNP3(E)** | 10.0 | 11.4 | 19.00 | 25.00 | 6.0 | 1.80 | POM | Natural (NA) | 191-10039 |
| **SNP4(E)** | 10.8 | 12.3 | 19.00 | 23.00 | 6.0 | 1.80 | POM | Natural (NA) | 191-10049 |
| **SNP6(E)** | 12.0 | 13.7 | 19.00 | 24.00 | 6.0 | 1.80 | POM | Natural (NA) | 191-10069 |
| **SNP8(E)** | 13.7 | 15.3 | 19.00 | 24.00 | 6.0 | 1.80 | POM | Natural (NA) | 191-10089 |
| **SNP10(E)** | 15.0 | 16.8 | 19.00 | 24.00 | 6.0 | 1.80 | POM | Natural (NA) | 191-10109 |
| **SNP12(E)** | 16.8 | 18.4 | 19.00 | 24.00 | 6.0 | 1.80 | POM | Natural (NA) | 191-10129 |
| **SNP14(E)** | 18.1 | 19.9 | 19.00 | 24.00 | 6.0 | 1.80 | POM | Natural (NA) | 191-10149 |
| **SNP16** | 19.3 | 21.5 | 19.00 | 24.00 | 6.0 | 1.90 | POM | Natural (NA) | 191-10169 |
| **SNP20(E)** | 22.7 | 24.7 | 20.00 | 26.00 | 6.0 | 1.80 | POM | Natural (NA) | 191-10209 |

All dimensions in mm. Subject to technical changes.

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Add items to your watchlist!
www.HT.click/9-205

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## Material Specification Overview

| MATERIAL | Material Shortcut | Operating Temperature | Colour** | Flammability | Material Properties* | Material Specifications |
|---|---|---|---|---|---|---|
| **Aluminium alloy** | AL | -40 °C to +180 °C | Natural (NA) | | • Corrosion resistant<br>• Antimagnetic | RoHS |
| **Chloroprene Rubber** | CR | -20 °C to +80 °C | Black (BK) | | • Weather resistant<br>• High yield strength | RoHS |
| **Ethylene Tetrafluoroethylene (Tefzel®)** | E/TFE | -80 °C to +170 °C | Blue (BU) | UL 94 V0 | • Resistance to radioactivity<br>• UV resistant, not moisture sensitive<br>• 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<br>• Flexible at low temperature<br>• Not moisture sensitive<br>• Robust on impact | RoHS |
| **Polyamide 11** | PA11 | -40 °C to +85 °C, (+105 °C, 500 h) | Black (BK) | UL 94 HB | • Bio-plastic, derived from vegetable oil<br>• Strong impact resistance at low temperature<br>• Very low moisture absorption<br>• Weather resistant<br>• Good chemical resistance | HF<br>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<br>• UV resistant | HF<br>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<br>• Very moisture sensitive<br>• Low smoke sensitivity | HF<br>LFH<br>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<br>• 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<br>RoHS |
| **Polyamide 6.6,** glass-fibre reinforced | PA66GF13 | -40 °C to +105 °C | Black (BK) | UL 94 HB | • Good resistance to lubricants, fuels, salt water and solvents | HF<br>RoHS |
| **Polyamide 6.6,** heat and UV-stabilised | PA66HSUV | -40 °C to +105 °C | Black (BK) | UL 94 V2 | • High yield strength<br>• Modified elevated maximum temperature<br>• UV resistant | HF<br>RoHS |
| **Polyamide 6.6,** heat stabilised | PA66HS | -40 °C to +105 °C | Black (BK), Natural (NA) | UL 94 V2 | • High yield strength<br>• Modified elevated maximum temperature | HF<br>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<br>• Higher flexibility at low temperature | RoHS |
| **Polyamide 6.6,** high impact modified, heat and UV-stabilised | PA66HIRHSUV | -40 °C to +110 °C | Black (BK) | UL 94 HB | • Limited brittleness sensitivity<br>• Higher flexibility at low temperature<br>• Modified elevated maximum temperature<br>• 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<br>• Higher flexibility at low temperature<br>• 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<br>• 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<br>• UV resistant | HF<br>RoHS |

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| MATERIAL | Material Shortcut | Operating Temperature | Colour** | Flammability | Material Properties* | Material Specifications |
|---|---|---|---|---|---|---|
| **Polyamide 6.6,** with metal particles | PA66MP | -40 °C to +85 °C, (+105 °C, 500 h) | Blue (BU) | UL 94 HB | • High yield strength<br>• Metal and X-Ray detectable | HF<br>RoHS |
| **Polyamide 6.6,** with metal particles | PA66MP+ | -40 °C to +85 °C | Blue (BU) | not flame retardant | • High yield strength<br>• Metal and X-Ray detectable | HF<br>RoHS |
| **Polyamide 6.6 V0** | PA66V0 | -40 °C to +85 °C | White (WH) | UL 94 V0 | • High yield strength<br>• Low smoke emission | HF<br>LFH<br>RoHS |
| **Polyester** | SP | -50 °C to +150 °C | Black (BK) | | • UV resistant<br>• Good chemical resistance to most acids, bases and oils | HF<br>LFH<br>RoHS |
| **Polyetheretherketone** | PEEK | -55 °C to +240 °C | Beige (BGE) | UL 94 V0 | • Resistance to radioactivity<br>• Not moisture sensitive<br>• Good chemical resistance to acids, bases, oxidising agents | HF<br>LFH<br>RoHS |
| **Polyethylene** | PE | -40 °C to +50 °C | Black (BK), Grey (GY) | UL 94 HB | • Low moisture absorption<br>• Good chemical resistance to most acids, bases, alcohol, oils | HF<br>RoHS |
| **Polyolefin** | PO | -40 °C to +90 °C | Black (BK) | UL 94 V0 | • Low smoke emissions | HF<br>LFH<br>RoHS |
| **Polypropylene** | PP | -40 °C to +115 °C | Black (BK), Natural (NA) | UL 94 HB | • Floats in water<br>• Moderate yield strength<br>• Good chemical resistance to acids, bases and solvents | HF<br>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<br>• Good chemical and abrasion resistance | HF<br>RoHS |
| **Polypropylene** with metal particles | PPMP | -40 °C to +115 °C | Blue (BU) | UL 94 HB | • Metal and X-Ray detectable<br>• Heat resistant<br>• Moderate yield strength<br>• Good chemical resistance | RoHS |
| **Polypropylene** with metal particles | PPMP+ | -40 °C to +85 °C | Blue (BU) | not flame retardant | • High yield strength<br>• Metal and X-Ray detectable | HF<br>RoHS |
| **Polyvinylchloride** | PVC | -10 °C to +70 °C | Black (BK), Natural (NA) | UL 94 V0 | • Low moisture absorption<br>• 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<br>• Antimagnetic<br>• Weather resistant<br>• Chemical resistance<br>• SS316 also resistant against seawater, salt spray and anorganic acids | HF<br>LFH<br>RoHS |
| **Thermoplastic Polyurethane** | TPU | -40 °C to +85 °C | Black (BK) | UL 94 HB | • High elasticity<br>• Good chemical resistance to acids, bases and oxidising agents | HF<br>RoHS |

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

**Further colours available on request.

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

N = **Minimum Loop Tensile Strength for Cable Ties (newton)**

**HF = Halogenfree**

**LFH = Limited Fire Hazard**

**RoHS = Restriction of Hazardous Substances**

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