



## Blind Plugs

Our Blind Plugs were developed especially for the automotive industry. Application in trunks, doors, wheel housing and dash panels. Parts are even used for optical reasons.

### Features and benefits

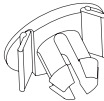
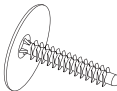
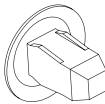
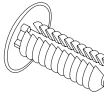
- Easy assembly without the need of a tool
- Disc of the part covers the hole and minimises ingress of dust, dirt and water
- Standard geometry for example fir tree or arrowhead



Blindplugs are available in different dimensions and materials.



**Material specification**  
please see page 26.

| TYPE               | Drawing                                                                             | Hole Ø<br>(FH) | Panel<br>Thickness | Material  | Colour       | Article-No. |
|--------------------|-------------------------------------------------------------------------------------|----------------|--------------------|-----------|--------------|-------------|
| TRIM PLUG 5        |   | 5.0            | 4.0 - 4.5          | PA66HIR   | Natural (NA) | 151-00333   |
| PLUG11             |  | 11.0           | 4.0 - 6.0          | PA66HIRHS | Natural (NA) | 151-00485   |
|                    |                                                                                     | 11.0           | 4.0 - 6.0          | POM       | Black (BK)   | 151-00360   |
| PLUG5.5            |  | 5.0 - 5.5      | 2.5 - 26.0         | PA6HIR    | Black (BK)   | 151-00399   |
|                    |                                                                                     | 5.0 - 5.5      | 2.5 - 26.0         | PA6HIR    | Grey (GY)    | 151-00401   |
| PLUG SQ8x8         |  | 7.6 - 8.0      | 1.0 - 3.0          | PA66HIR   | Black (BK)   | 151-00415   |
| PLUG5 WITH OPENING |  | 5.05 - 5.25    | 4.8 - 5.2          | PA66HIRHS | Black (BK)   | 151-00419   |
| PLUG10             |  | 10.2           | 2.0 - 12.0         | PE        | Black (BK)   | 151-00426   |
|                    |                                                                                     | 10.2           | 2.0 - 12.0         | PE        | Grey (GY)    | 151-00488   |
| BPFT6XXL           |  | 6.3 - 7.0      | 6.0 - 17.0         | PA66HIRHS | Natural (NA) | 151-01160   |
| PLUGFT6XL          |                                                                                     | 6.5 - 7.0      | 0.7 - 18.0         | PA46      | Brown (BN)   | 151-00428   |
|                    |                                                                                     | 6.5 - 7.0      | 0.7 - 18.0         | PA66HIR   | Black (BK)   | 241-00002   |
|                    |                                                                                     | 6.5 - 7.0      | 0.7 - 18.0         | PA66HIR   | Grey (GY)    | 241-00001   |
| PLUGFT7            |  | 7.05 - 7.25    | 2.5 - 8.0          | PA6HIR    | Black (BK)   | 151-00414   |

All dimensions in mm. Subject to technical changes.

## Material Specification Overview

| MATERIAL                                                   | Material Shortcut  | Operating Temperature                                | Colour**                 | Flammability | Material Properties*                                                                                                                                                                                                                              | Material Specifications |
|------------------------------------------------------------|--------------------|------------------------------------------------------|--------------------------|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| Aluminium alloy                                            | AL                 | -40 °C to +180 °C                                    | Natural (NA)             |              | <ul style="list-style-type: none"> <li>Corrosion resistant</li> <li>Antimagnetic</li> </ul>                                                                                                                                                       | RoHS                    |
| Chloroprene rubber                                         | CR                 | -20 °C to +80 °C                                     | Black (BK)               |              | <ul style="list-style-type: none"> <li>Weather resistant</li> <li>High yield strength</li> </ul>                                                                                                                                                  | RoHS                    |
| Ethylene Tetrafluoroethylene (Tefzel®)                     | E/TFE              | -80 °C to +170 °C                                    | Blue (BU)                | UL 94 V0     | <ul style="list-style-type: none"> <li>Resistance to radioactivity</li> <li>UV resistant, not moisture sensitive</li> <li>Good chemical resistance to acids, bases, oxidizing agents</li> </ul>                                                   | RoHS                    |
| Polyacetal                                                 | POM                | -40 °C to +90 °C, (+110 °C, 500 h)                   | Natural (NA)             | UL 94 HB     | <ul style="list-style-type: none"> <li>Limited brittleness sensitivity</li> <li>Flexible at low temperature</li> <li>Not moisture sensitive</li> <li>Robust on impact</li> </ul>                                                                  | RoHS                    |
| Polyamide 11                                               | PA11               | -40 °C to +85 °C, (+105 °C, 500 h)                   | Black (BK)               | UL 94 HB     | <ul style="list-style-type: none"> <li>Bio-plastic, derived from vegetable oil</li> <li>Strong impact resistance at low temperature</li> <li>Very low moisture absorption</li> <li>Weather resistant</li> <li>Good chemical resistance</li> </ul> | HF<br>RoHS              |
| Polyamide 12                                               | PA12               | -40 °C to +85 °C, (+105 °C, 500 h)                   | Black (BK)               | UL 94 HB     | <ul style="list-style-type: none"> <li>Good chemical resistance to acids, bases, oxidizing agents</li> <li>UV resistant</li> </ul>                                                                                                                | 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     | <ul style="list-style-type: none"> <li>Resistance to high temperatures</li> <li>Very moisture sensitive</li> <li>Low smoke sensitivity</li> </ul>                                                                                                 | HF<br>LFH<br>RoHS       |
| Polyamide 6                                                | PA6                | -40 °C to +80 °C                                     | Black (BK)               | UL 94 V2     | <ul style="list-style-type: none"> <li>High yield strength</li> </ul>                                                                                                                                                                             | RoHS                    |
| Polyamide 6 high impact modified                           | PA6HIR             | -40 °C to +80 °C                                     | Black (BK)               | UL 94 HB     | <ul style="list-style-type: none"> <li>Limited brittleness sensitivity</li> <li>Higher flexibility at low temperature</li> </ul>                                                                                                                  | RoHS                    |
| Polyamide 6.6                                              | PA66               | -40 °C to +85 °C, (+105 °C, 500 h)                   | Black (BK), Natural (NA) | UL 94 V2     | <ul style="list-style-type: none"> <li>High yield strength</li> </ul>                                                                                                                                                                             | HF<br>RoHS              |
| Polyamide 6.6 glass-fibre reinforced                       | PA66GF13, PA66GF15 | -40 °C to +105 °C                                    | Black (BK)               | UL 94 HB     | <ul style="list-style-type: none"> <li>Good resistance to lubricants, fuels, salt water and solvents</li> </ul>                                                                                                                                   | HF<br>RoHS              |
| Polyamide 6.6 heat and UV stabilised                       | PA66HSW            | -40 °C to +105 °C                                    | Black (BK)               | UL 94 V2     | <ul style="list-style-type: none"> <li>High yield strength</li> <li>Modified elevated maximum temperature</li> <li>UV resistant</li> </ul>                                                                                                        | HF<br>RoHS              |
| Polyamide 6.6 heat stabilised                              | PA66HS             | -40 °C to +105 °C                                    | Black (BK), Natural (NA) | UL 94 V2     | <ul style="list-style-type: none"> <li>High yield strength</li> <li>Modified elevated maximum temperature</li> </ul>                                                                                                                              | HF<br>RoHS              |
| Polyamide 6.6 high impact modified                         | PA66HIR            | -40 °C to +80 °C, (+105 °C, 500 h)                   | Black (BK)               | UL 94 HB     | <ul style="list-style-type: none"> <li>Limited brittleness sensitivity</li> <li>Higher flexibility at low temperature</li> </ul>                                                                                                                  | RoHS                    |
| Polyamide 6.6 high impact modified, heat and UV stabilised | PA66HIRHSW         | -40 °C to +110 °C                                    | Black (BK)               | UL 94 HB     | <ul style="list-style-type: none"> <li>Limited brittleness sensitivity</li> <li>Higher flexibility at low temperature</li> <li>Modified elevated maximum temperature</li> <li>High yield strength, UV resistant</li> </ul>                        | RoHS                    |
| Polyamide 6.6 high impact modified, heat stabilised        | PA66HIRHS          | -40 °C to +105 °C                                    | Black (BK)               | UL 94 HB     | <ul style="list-style-type: none"> <li>Limited brittleness sensitivity</li> <li>Higher flexibility at low temperature</li> <li>Modified elevated maximum temperature</li> </ul>                                                                   | 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     | <ul style="list-style-type: none"> <li>Limited brittleness sensitivity</li> <li>Higher flexibility at low temperature</li> </ul>                                                                                                                  | RoHS                    |
| Polyamide 6.6 UV resistant                                 | PA66W              | -40 °C to +85 °C, (+105 °C, 500 h)                   | Black (BK)               | UL 94 V2     | <ul style="list-style-type: none"> <li>High yield strength</li> <li>UV resistant</li> </ul>                                                                                                                                                       | HF<br>RoHS              |

| MATERIAL                                                                                        | Material<br>Shortcut | Operating<br>Temperature              | Colour**                    | Flammability           | Material Properties*                                                                                                                                                     | Material<br>Specifications |
|-------------------------------------------------------------------------------------------------|----------------------|---------------------------------------|-----------------------------|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| <b>Polyamide 6.6</b><br>with metal particles                                                    | PA66MP               | -40 °C to +85 °C,<br>(+105 °C, 500 h) | Blue (BU)                   | UL 94 HB               | • High yield strength<br>• Metal and X-Ray detectable                                                                                                                    | HF<br>RoHS                 |
| <b>Polyamide 6.6</b><br>with metal particles                                                    | PA66MP+              | -40 °C to +85 °C                      | Blue (BU)                   | not flame<br>retardant | • High yield strength<br>• Metal and X-Ray detectable                                                                                                                    | HF<br>RoHS                 |
| <b>Polyamide 6.6 V0</b>                                                                         | PA66V0               | -40 °C to +85 °C                      | White (WH)                  | UL 94 V0               | • High yield strength<br>• Low smoke emission                                                                                                                            | HF<br>LFH<br>RoHS          |
| <b>Polyester</b>                                                                                | SP                   | -50 °C to +150 °C                     | Black (BK)                  |                        | • UV resistant<br>• Good chemical resistance to most<br>acids, bases and oils                                                                                            | HF<br>LFH<br>RoHS          |
| <b>Polyetheretherketone</b>                                                                     | PEEK                 | -55 °C to +240 °C                     | Beige (BGE)                 | UL 94 V0               | • Resistance to radioactivity<br>• Not moisture sensitive<br>• Good chemical resistance to acids,<br>bases, oxidising agents                                             | HF<br>LFH<br>RoHS          |
| <b>Polyethylene</b>                                                                             | PE                   | -40 °C to +50 °C                      | Black (BK),<br>Grey (GY)    | UL 94 HB               | • Low moisture absorption<br>• Good chemical resistance to most<br>acids, bases, alcohol, oils                                                                           | HF<br>RoHS                 |
| <b>Polyolefin</b>                                                                               | PO                   | -40 °C to +90 °C                      | Black (BK)                  | UL 94 V0               | • Low smoke emissions                                                                                                                                                    | HF<br>LFH<br>RoHS          |
| <b>Polypropylene</b>                                                                            | PP                   | -40 °C to +115 °C                     | Black (BK),<br>Natural (NA) | UL 94 HB               | • Floats in water<br>• Moderate yield strength<br>• Good chemical resistance to acids,<br>bases and solvents                                                             | HF<br>RoHS                 |
| <b>Polypropylene, Ethylene<br/>Propylene Diene<br/>Terpolymer rubber</b><br>free of Nitrosamine | PP, EPDM             | -20 °C to +95 °C                      | Black (BK)                  | UL 94 HB               | • Good resistance to high<br>temperature<br>• Good chemical and abrasion<br>resistance                                                                                   | HF<br>RoHS                 |
| <b>Polypropylene</b><br>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                       |
| <b>Polypropylene</b><br>with metal particles                                                    | PPMP+                | -40 °C to +85 °C                      | Blue (BU)                   | not flame<br>retardant | • High yield strength<br>• Metal and X-Ray detectable                                                                                                                    | HF<br>RoHS                 |
| <b>Polyvinylchloride</b>                                                                        | PVC                  | -10 °C to +70 °C                      | Black (BK),<br>Natural (NA) | UL 94 V0               | • Low moisture absorption<br>• Good chemical resistance to acids,<br>bases, salts, alcohol, oils                                                                         | RoHS                       |
| <b>Stainless Steel,<br/>Stainless Steel</b>                                                     | SS304,<br>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<br>seawater, salt spray and anorganic<br>acids | HF<br>LFH<br>RoHS          |
| <b>Thermoplastic<br/>Polyurethane</b>                                                           | TPU                  | -40 °C to +85 °C                      | Black (BK)                  | UL 94 HB               | • High elasticity<br>• Good chemical resistance to acids,<br>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 addition 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 an exhaustive material specification and are no substitute for suitability tests. Please see our datasheets for further details.



= Minimum Loop Tensile Strength  
for Cable Ties (Newton)

HF = Halogenfree

LFH = Limited Fire Hazard

RoHS = Restriction of Hazardous Substances