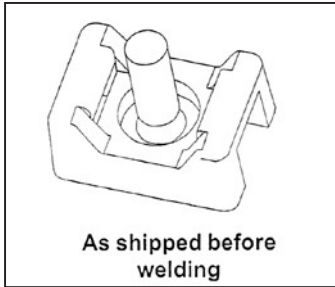


# WT WIRE TIE DOWN STUD



Nylon Wire Tie Mechanical Dimensions

|             | Inch  | mm    |
|-------------|-------|-------|
| Height      | 0.390 | 9.90  |
| Length      | 0.875 | 22.22 |
| Width       | 0.625 | 15.87 |
| Slot Height | 0.090 | 2.29  |
| Slot Width  | 0.325 | 8.26  |



Nylon 6/6 Temperature Index

| Temperature Index |                 |                            |                         |
|-------------------|-----------------|----------------------------|-------------------------|
| Minimum Thickness | Electrical (°C) | Mechanical w/o Impact (°C) | Hot Wire Ignition (sec) |
| 0.028             | 125             | 65                         | 11.8                    |
| 0.058             | 125             | 85                         | 15.0                    |

Nylon 6/6 NBS Smoke Generation

| Sample Thickness | UL Flammability | Energy Source                 | Specific Optical Density      |              |
|------------------|-----------------|-------------------------------|-------------------------------|--------------|
|                  |                 |                               | at Maximum Smoke Accumulation | at 2 Minutes |
| 1/16"            | 94 V-2          | Radiant (2.5 watts/sq cm)     | 13                            | 0            |
| 1/16"            | 94 V-2          | Radiant Plus Flaming Gas Jets | 26                            | 1            |

Nylon 6/6 Properties

| Property                 | ASTM Method | Test Condition             | Units          | Nylon 6/6 |
|--------------------------|-------------|----------------------------|----------------|-----------|
| Tensile Strength         | D638        | +73° F; 50% RH             | kpsi           | 11.2      |
| Elongation at Break      | D638        | +73° F; 50% RH             | %              | >= 300    |
| Yield Strength           | D638        | +73° F; 50% RH             | kpsi           | 8.5       |
| Shear Strength           | D732        | Dry as Molded (DAM)        | kpsi           | 9.6       |
| Deformation under load   | D621        | 2,000 psi; +122°F; DAM     | %              | 1.4       |
| IZOD Impact              | D256        | +73° F; 50% RH             | ft lb/in       | 2.1       |
| Tensile Impact Strength  | D1822       | +73° F; Long Specimen; DAM | ft lb/in       | 240       |
| Melting Point            | D789        | Fisher-Johns               | °F             | 491       |
| Thermal Linear Expansion | D696        | DAM                        | in/in/°F       | TBD       |
| Thermal Conductivity     | --          | DAM Conche-Fitch           | BTU-in/h•ft•°F | 1.7       |
| Brittleness Temperature  | D746        | 50% RH                     | °F             | -85       |
| Oxygen Index             | D2863       | DAM                        | %O             | 28        |
| Oxygen Index             | D2864       | 50% RH                     | %O             | 31        |
| UL Flammability          | UL 94       | DAM                        | --             | V-2       |
| UL Flammability          | UL 95       | 50% RH                     | --             | V-2       |

**STUD WELDING PRODUCTS, INC.**

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