

Drossbach Technical Data Sheet For Flexible Convoluted Tubing / Conduit



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| Data Sheet: | TD-022 "NN" Flame Retardant |
| Revision: | 4 |
| Date: | 12-Aug-14 |
| Base Material: | Flame Retardant Nylon |
| Material Code: | NN |

Our commitment to quality is our commitment to success

Product Description

Flexible convoluted tubing / conduit manufactured from a nylon 6 co-polymer resin.

Performance Enhancers

| | |
|-----------------|--|
| Flame Retardant | ASTME 162-Surface Flammability of Materials & 662- Specific Optical Density of Smoke |
| UV Inhibitor | No |
| Heat Stabilizer | Yes |

Performance Characteristics

| | |
|---|----------------|
| Flexibility | Good |
| Abrasion Resistance | Excellent |
| Chemical Resistance | Good |
| Recommended Operating Upper Temperature | +300°F (149°C) |
| Recommended Operating Lower Temperature | -40°F (-40°C) |

| Typical Physical Properties | Test Method | Value | Units |
|------------------------------------|-----------------|---------------|-------|
| Specific Gravity/Density | ISO 1183 | 1.14 | - |
| Elongation @ Break | - | - | - |
| Elongation @ Yield | - | - | - |
| Tensile Strength @ 25C | ISO 527 | 33 | MPa |
| 2% Secant Modulus | - | - | - |
| Flexural Modulus | ISO 178 | 1500 | MPa |
| Melting Point | - | - | - |
| Notched Izod Impact Test | ISO 180/1A:1993 | 75 | KJ/m2 |
| Heat Deflection Temperature @66ps | - | - | - |
| Heat Deflection Temperature @264ps | ISO 75:1993 | 59°C@ 1.80MPa | °C |

Material Certifications

| | |
|-------------------------|---|
| Delphi / Packard | - |
| Ford | - |
| General Motors | - |
| Chrysler | - |
| ASTM | ASTME 162 (with flame drip) & ASTME 662 |
| Underwriters Laboratory | - |
| FMVSS 302 | - |
| Other | Bombardier SMP-800C |

Notes

- (1) Drossbach does not claim or state any UV life or warranty for product manufactured with a "UV inhibitor" additive as we do not have any control over its end use environment
- (2) All "UL" and FMVSS 302 flame ratings are for the resin used to manufacture our product, not for our end product. The ratings are created by testing standard "UL" and "FMVSS" plaque specimens, not tubing samples
- (3) All Drossbach's products are compliant with the European Union's Directive 2002/95/EU (RoHS) and the REACH Directive
- (4) Only product designated as **UL 94 "V0"** in the Material Certification section above can be certified **non-Halogenated product**
- (5) If a product is designated as flame retardant but has no material certification listed, this product is a Drossbach internally blended material blended with a flame retardant additive. It is tested to an internal flame test (DR-006) that holds no claimed warranty



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