



DATA SHEET

Document number: TTDS-019
Issue: 4
Date: March 2014

RPS Heat shrinkable sleeves

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| MATERIAL DESCRIPTION: | Thin wall, flame retarded radiation cross-linked polyolefin heat-shrinkable tubing, assembled as organized cut sleeves in a "ladder" configuration. 3:1 shrink ratio. |
| USE: | Identification of wires and cables by computer-based printing onto sleeves. Sleeves can also provide terminal insulation and strain relief. Suitable for many commercial applications. |
| PRINT METHOD/RIBBON: | See document 411-121005 IDENTIFICATION PRINTER PRODUCT RIBBON MATRIX for the recommended printer/product/ribbon combination. |
| SERVICE TEMPERATURE: | -30°C to +105°C (-22°F to +221°F). |
| COLORS: | White or yellow. |
| FLAMMABILITY: | Burn time <1 minute (UL 224, all tubing flame test). |
| LONGITUDINAL CHANGE: | 20% maximum on shrinking. |
| TENSILE STRENGTH: | 8MPa minimum (ASTM D2671). |
| ULTIMATE ELONGATION: | 150% minimum (ASTM D2671). |
| MOLD GROWTH: | 56 day incubation (ISO 846B) – tensile strength, ultimate elongation and Dielectric strength maintained after testing. |
| DIELECTRIC STRENGTH: | 19.7MV/m minimum. |
| MAXIMUM STORAGE TEMPERATURE: | 40°C (104°F). |
| PRINT PERMANENCE: | Print legible after 20 rubs (SAE AS5942) Print legible after 30 strokes (MIL-STD-202F, method 215J) |

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| THREAT | TEST | EFFECT |
|---|---|---------------|
| Isopropyl Alcohol | 24 hours at 23°C (73°F), SAE AS5942 (20 rubs) | Print legible |
| Gasoline (unleaded) | 24 hours at 23°C (73°F), SAE AS5942 (20 rubs) | Print legible |
| Diesel Fuel, DF2 | 24 hours at 23°C (73°F); SAE AS5942 (20 rubs) | Print legible |
| Auto Engine Oil, SF 10W-40 (SAE J 183, SAE J 300) | 24 hours at 23°C (73°F); SAE AS5942 (20 rubs) | Print legible |
| Motor Vehicle Brake Fluid, SAE J 1703 | 24 hours at 23°C (73°F); SAE AS5942 (20 rubs) | Print legible |
| Ethylene Glycol | 24 hours at 23°C (73°F); SAE AS5942 (20 rubs) | Print legible |

Notes: See TE specification RW2510 for full RPS performance & dimensional details.

Some types of neoprene insulation used in jackets contain additives that can migrate to the surface and discolor the polyolefin RPS sleeves. Any discoloration is dependent on the composition of the neoprene, combined with application conditions. Users should independently evaluate the suitability of RPS sleeves for applications involving neoprene-jacketed cables.

Mouser Electronics

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