



THERMODAN® HF TP 0851

**THERMOPLASTIC, LOW SMOKE, HALOGEN
FREE, CERAMIFIABLE FLAME RETARDANT
COMPOUND FOR CABLE SHEATHING**



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Thermoplastic, Low Smoke, Halogen Free, Ceramifiable Flame Retardant Compound for Cable Sheathing

TP 0851 is a flame retardant, low smoke, thermoplastic sheathing compound formulated to meet the requirements of limited toxic and corrosive fume emission. The material forms a strong cohesive char when exposed to flame and is particularly suitable for fire survival/circuit integrity cable types such as emergency alarm, communication and lighting circuitry.

TP 0851 has been specially developed to comply with the requirements of cable specifications BS 7629, BS 6387 CWZ, BS EN 50200, BS 8434-2 & BS 5839-1 Clause 26.2 PH120 Enhanced. TP 0851 complies with LTS3 in BS 7655.

| Test | Test Method | Unit | Typical Value |
|--|-----------------|-------------------|---------------|
| Physical Properties and Mechanical Properties | | | |
| Melt Flow Rate (21.6kg @150°C) | SACO AEI Method | g/10 minutes | 15 |
| Tensile Strength | IEC 60811-501 | N/mm ² | 12 |
| Elongation at Break | IEC 60811-501 | % | 160 |
| Typical Ageing Behaviour After 7 Days at 150° | | | |
| Tensile Strength | IEC 60811-401 | % variation | -15 |
| Elongation at Break | IEC 60811-401 | % variation | +15 |
| Thermo Mechanical Propertie | | | |
| Hot Pressure Deformation at 80°C | IEC 60811-508 | % | 25 |
| Fire and Smoke Properties | | | |
| Halogen Acid Gas Evolution | IEC 60754-1 | % | <0.5 |
| Smoke Emission 3m Cube Test | BS EN 61034-2 | - | Pass |
| Water Immersion After 7 Days at 70°C | | | |
| Tensile Strength | IEC 60811-402 | % Variation | -15 |
| Elongation at Break | IEC 60811-402 | % Variation | +15 |