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SHF1 versus SHF2

The table below addresses only some main characteristics differences. For complete information see IEC60092-359

| | SHF1 | SHF2 |
|--|---|---|
| Type of material | Halogen-free Thermoplastic | Halogen-free Elastomeric or thermosetting material |
| Some main characteristics | | |
| Mechanical characteristics after immersion in hot oil (IEC 60811-2-1, clause 10)* * If oil resistance is required for a halogen-free compound, SHF 2 compound is recommended. | No requirements | 100 °C for 24 hours: ±40% maximum variation in tensile strength: ±40% maximum variation in elongation at break |
| Hot set test (IEC 60811-2-1, clause 9) | No requirements | 200 °C, 15 min time under load with 20 (N/mm²) mechanical stress: 175% Maximum elongation under load 25% Maximum permanent elongation after cooling |
| Pressure test at high temperature IEC 60811-3-1, subclause 8.2) | 80 °C, 4-6 min under load depending on cable diameter: • 50% Maximum permissible deformation | No requirements |
| Heat shock test (IEC 60811-3-1, subclause 9.2) | 150 °C) 1h duration: | No requirements |
| Ozone resistance test IEC 60811-2-1, clause 8 (Alternative test method may be used in some countries for legal reasons) | No requirements | 25 ± 2°C for 24 h: • Max 0,025 to 0,030 % ozone concentration (in volume) |