



» PRODUCT BULLETIN

FireCon™ CPE

Chlorinated Polyethylene Jacketing Materials

FireCon™ CPE formulations are flame-retardant jacketing materials designed for use in low-voltage power and control cables which are routinely exposed to harsh chemicals and low temperatures. The materials are compounded with fillers, flame-retardants, additives and stabilizers to provide a customized desired level of performance. As such, FireCon CPE formulations are well suited to provide a robust cable jacketing solution.

Cable constructions using FireCon CPE formulations are suitable for the following UL Standards:

- UL 13** - Power-Limited Circuit Cables
- UL 44** - Thermoset-Insulated Wire and Cable
- UL 62** - Flexible Cords and Cables
- UL 1277** - Electrical Power and Control Tray Cables with Optional Optical-Fiber Members
- UL 2250** - Instrumentation Tray Cable

KEY CHARACTERISTICS

- Retains flexibility at temperatures below 0°C
- Resistant to acids, alkalis, oils, fuels and chemical solvents
- Excellent balance of physical properties
- Suitable for VW1 and tray cable rated applications
- Available in UV resistant grades
- Available in custom colors

MARKETS AND APPLICATIONS

- Oil, gas and petroleum applications
- Tray cable
- Industrial cable
- Low-voltage power cables
- Medium-voltage power cables
- Control cables
- VW1 applications



TECHNICAL PROPERTIES

| FIRECON™ | CPE 30-33 RoHS Black | CPE 37-36 RoHS Black | CPE 37-31 RoHS Black | CPE 37-31 RoHS Natural |
|----------------------------|----------------------|----------------------|----------------------|------------------------|
| Specific Gravity | 1.31 | 1.38 | 1.39 | 1.39 |
| MFI (190°C, 21.6 Kg) | 15 | 22.4 | 34.3 | 34 |
| Durometer Hardness | 39D | 31D | 34D | 34D |
| Tensile Strength, PSI | 1,499 | 2,200 | 2,096 | 1,800 |
| Tensile Elongation (%) | 350 | 300 | 325 | 300 |
| UL Temperature Rating °C | 90 | 90 | 90 | 90 |
| LOI (% Oxygen) | 30 | 37 | 37 | 37 |
| Brittleness Temperature °C | -33 | -36 | -31 | -31 |

To learn more about FireCon CPE jacketing solutions, contact Avient at 1.844.4AVIENT www.avient.com



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