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

<table>
<thead>
<tr>
<th>FIRECON™</th>
<th>CPE 30-33 RoHS Black</th>
<th>CPE 37-36 RoHS Black</th>
<th>CPE 37-31 RoHS Black</th>
<th>CPE 37-31 RoHS Natural</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specific Gravity</td>
<td>1.31</td>
<td>1.38</td>
<td>1.39</td>
<td>1.39</td>
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<tr>
<td>MFI (190°C, 21.6 Kg)</td>
<td>15</td>
<td>22.4</td>
<td>34.3</td>
<td>34</td>
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<tr>
<td>Durometer Hardness</td>
<td>39D</td>
<td>31D</td>
<td>34D</td>
<td>34D</td>
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<tr>
<td>Tensile Strength, PSI</td>
<td>1,499</td>
<td>2,200</td>
<td>2,096</td>
<td>1,800</td>
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<tr>
<td>Tensile Elongation (%)</td>
<td>350</td>
<td>300</td>
<td>325</td>
<td>300</td>
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<tr>
<td>UL Temperature Rating °C</td>
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<td>90</td>
<td>90</td>
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<tr>
<td>LOI (% Oxygen)</td>
<td>30</td>
<td>37</td>
<td>37</td>
<td>37</td>
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<tr>
<td>Brittleness Temperature °C</td>
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<td>-36</td>
<td>-31</td>
<td>-31</td>
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To learn more about FireCon CPE jacketing solutions, contact Avient at 1.844.4AVIENT
www.avient.com

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