# FireCon™ CPE 30-20 RoHS Natural

## Chlorinated Polyethylene

### Key Characteristics

| Product Description | | | |
|---|---|---|---|
| CPE-30-20 RoHS NATURAL is a fast processing formulation based on chlorinated polyethylene (CPE). It has excellent low temperature brittleness, chemical resistance & flame performance, along with good balance of mechanical properties. It can be used for cable jacket for use in industrial, mining & tray cables requiring resistance to harsh environment and for the jackets to be colored. It is suitable for VW1 and tray fire rated applications. | | | |
| **General** | | | |
| Material Status | • Commercial: Active | | |
| Regional Availability | • Asia Pacific<br>• Europe | • Latin America<br>• North America | |
| Features | • Chemical Resistant<br>• Flame Retardant | • Good Processability<br>• Good Thermal Stability | • Oil Resistant |
| Uses | • Cable Jacketing | • Wire & Cable Applications | |
| Forms | • Pellets | | |

### Technical Properties [1]

| Physical | Typical Value (English) | Typical Value (SI) | Test Method |
|---|---|---|---|
| Density / Specific Gravity | 1.31 | 1.31 | ASTM D792 |
| **Mechanical** | **Typical Value (English)** | **Typical Value (SI)** | **Test Method** |
| Tensile Strength [2] (Ultimate) | 1850 psi | 12.8 MPa | ASTM D638 |
| Tensile Stress (100% Strain) | 1100 psi | 7.58 MPa | ASTM D1708 |
| Tensile Elongation [3] (Break) | 550 % | 550 % | ASTM D638 |
| **Hardness** | **Typical Value (English)** | **Typical Value (SI)** | **Test Method** |
| Durometer Hardness (Shore D, 10 sec) | 37 | 37 | ASTM D2240 |
| **Thermal** | **Typical Value (English)** | **Typical Value (SI)** | **Test Method** |
| Brittleness Temperature | -4.00 °F | -20.0 °C | ASTM D746 |
| **Flammability** | **Typical Value (English)** | **Typical Value (SI)** | **Test Method** |
| Oxygen Index (0.0750 in (1.91 mm)) | 30 % | 30 % | ASTM D2863 |

**Additional Information**

Note: Pre-drying is recommended for 4 hours at 175°-185°F.

Note: Typical processing temperatures range between 300°-370°F depending upon screw design. Contact PolyOne Wire & Cable Technical Service for specific recommendations.

NOTE: Typical Properties of Molded Slab (0.075"); Not to be Construed as Specifications.

**Notes**

[1] Typical values are not to be construed as specifications.

[2] 20 in/min (510 mm/min)

[3] Type IV, 20 in/min (510 mm/min)

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