

PRODUCT BULLETIN

ECCOH™ Low Smoke & Fume Non-Halogen Formulation 5981

UV and chemically resistant thermoplastic for Teck 90 cable outer jackets

ECCOH 5981 UV thermoplastic is a cost-effective material for jacketing, combining high environmental stress crack resistance (ESCR), UV performance, good shear strength, and flame-retardant properties for low-voltage, armored cables.

This low smoke and fume non-halogen (LSFOH) grade was developed to provide comparable performance to market-leading jacket materials, including PVC, while offering additional benefits to cable manufacturers needing to meet CSA Teck 90 certification. The ECCOH 5981 UV grade prevents cracking, absorbs stress, withstands low temperatures, and resists chemicals, helping to reduce damage to cable construction, mitigate risks during installation and use, and avoid costly field repairs.

With these high-performing mechanical properties, and the ability to customize for specific application requirements, the ECCOH 5981 formulation provides an LSFOH material that is especially suitable in cables used in confined spaces, such as mines, industrial plants, and transit systems.

KEY CHARACTERISTICS

- Smoke mitigation
- Flame resistance
- Passes -40° cold impact testing
- Crush resistance
- UV resistance
- Suitable for CSA Teck 90 specification
- Excellent tensile strength (2,910 psi)
- Natural grades for easy colorability

MARKETS & APPLICATIONS

This LSFOH thermoplastic meets critical requirements for low-voltage, armored cable jackets. Offering excellent mechanical properties, the ECCOH 5981 UV formulation provides a durable material choice for Teck 90 cables used in demanding locations where safety is paramount.

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