AXELERON™ CS L-3364 NT CPD

High Density Polyethylene Solid Insulation Compound

陶氏塑料

Technical Data

产品说明

AXELERON™ CS L-3364 NT CPD is a high-molecular weight, high-density polyethylene insulation compound ("CPD") specifically formulated to provide excellent oxidative stability, toughness, and abrasion resistance. It provides superior long term aging performance, especially in the more demanding grease-filled cable applications while providing excellent environmental and thermal stress-cracking resistance. In addition, AXELERON™ CS L-3364 NT CPD provides excellent processibility for high-speed wire insulating extrusion processes.

AXELERON™ CS L-3364 NT CPD provides excellent performance across the full range of telephone insulation applications, including aircore and grease-filled cable designs in both buried and aerial environments AXELERON™ CS L-3364 NT CPD is optimized to meet rigorous Telcordia (formerly Bellcore) age testing requirements, as well as all major international age testing standards and specifications for both solid and foam/skin insulation use. There is also considerable AXELERON™ CS L-3364 NT CPD use in a wide variety of other twisted pair, optic, coaxial and power cable designs.

Specifications

AXELERON™ CS L-3364 NT CPD meets the following raw material specifications:

- ASTM D 1248 Type III Category A-4, Grade E8 and E9
- Federal LP-390 C, II-H, Grades 1 and 2, Category 4

Telephone wire insulated with AXELERON™ CS L-3364 NT CPD, using sound commercial extrusion practices, should meet the following cable specifications:

- REA PE 39 "Filled Telephone Cable"
- REA PE 89 "Filled Telephone Cable with Expanded Insulation"
- Telcordia GR-421-CORE, Issue 1; 3 "Generic Requirements for Metallic Telecommunications Cables"
- ICEA S-84-608 "Telecommunications Cable; Filled, Polyolefin Insulated, Copper Conductor - Technical Requirements"

总体

材料状态	• 已商用：当前有效		
资料 [1]	• Technical Datasheet		
搜索 UL 黄卡	• 陶氏塑料		
供货地区	• 北美洲 • 非洲和中东	• 拉丁美洲 • 欧洲	• 亚太地区
用途	• 薄壁绝缘 • 电话绝缘体	• 电线电缆应用 • 固体绝缘	• 通信电线绝缘材料
机构评级	• ASTM D 1248, III, Class A, Cat. 4, Grade E8 • ASTM D 1248, III, Class A, Cat. 4, Grade E9 • FED L-P-390C, Type II, Class H, Category 4, Grade 1 • ICEA S-84-608 • REA PE-39 • REA PE-89		
形式	• 粒子		

物理性能	额定值 单位制	测试方法
比重	0.945 g/cm³	ASTM D792
熔流率（熔体流动速率）(190°C/2.16 kg)	0.80 g/10 min	ASTM D1238
抗环境应力开裂 (50°C, 100% Igepal, F0)	> 48.0 hr	ASTM D1693
机械性能	**额定值 单位制**	**测试方法**
抗张强度	23.4 MPa	ASTM D638
伸长率 (断裂)	500 %	ASTM D638
热性能	**额定值 单位制**	**测试方法**
脆化温度 [3]	-76.0 °C	ASTM D746
耐热应力裂纹 - F0	> 96 hr	ASTM D2951
氧感应时间 [4] (200°C)	170 min	ASTM D4565
老化	**额定值 单位制**	**测试方法**
拉伸强度保持率 - 48 hrs (100°C)	90 %	ASTM D638
伸长保持率 - 48 hrs (100°C)	90 %	ASTM D638

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电气性能	额定值 单位制	测试方法
体积电阻率 (23°C)	> 1.0E+15 ohms·cm	ASTM D257
介电常数 (1 MHz)	2.32	ASTM D1531
耗散因数 [5] (1 MHz)	6.0E-5	ASTM D1531

挤出	额定值 单位制
熔体温度	218 到 260 °C

挤压说明

AXELERON™ CS L-3364 NT CPD provides excellent surface finish and good output rates over a broad range of extrusion conditions. AXELERON™ CS L-3364 NT CPD is typically extruded at melt discharge temperatures ranging from 425 to 500°F (220 to 260°C) using conductor preheats ranging from 230 to 290°F (110 to 140°C). Specific extrusion conditions can be recommended only when the application, processing speed and processing equipment details are known.

备注

[1] 通过这些链接您能够访问供应商资料。我们尽量保证及时更新资料；不过您可以从供应商处了解最新资料。

[2] 一般属性：这些不能被视为规格。

[3] F0

[4] Aluminum pan O/T testing of 0.25 mm film samples 80°C ETPR cable type filler was used.

[5] After 14 days Water Immersion at 23°C (73°F)