

DOW™ Electrical & Telecommunications HFDB-4202 NT

Crosslinkable Power Cable Insulation Compound

The Dow Chemical Company

Описание материалов:

HFDB-4202 NT is a long-life, water-tree-retardant, unfilled, crosslinkable, low density polyethylene insulation compound. The permanent tree-retardant additive provides improved performance in power cables in service involving exposure to moisture while retaining the excellent physical, electrical, and processing attributes of conventional, crosslinkable polyethylene.

HFDB-4202 NT Compound provides electric utilities with:

State-of-the-art "water" tree-retardant technology.

Proven in the field for over 25 years.

Excellent electrical performance.

Specifications

HFDB-4202 NT tree-retardant compound is designed for use in power distribution cables and especially in underground applications (with and without moisture barriers), providing for improved performance over XLPE cables. Cables insulated with HFDB-4202 NT, using sound commercial fabrication manufacturing practice, would be expected to meet the latest editions of the following specifications and regulations:

ANSI/ICEA: S-94-649, S-97-682, S-93-639 / NEMA WC74 (TR-XLPE requirements)

AEIC: CS8

RUS 50-70 (U-1)

CEA: WCWG-01 & WCWG-02

IEC: 60502

CENELEC: HD 620 S1/A3, HD 629 S1

GB/T 12706

DL/T 1070

Главная Информация

Используется	Подземный Кабель Применение проводов и кабелей Изоляционный материал Изоляция среднего напряжения		
Рейтинг агентства	AEIC CS8 HD 620 S1 ICEA S-93-639 ICEA S-94-649 ICEA S-97-682 IEC 60502 (Национальная ассоциация владельцев электротехнических WC-74)		
Формы	Частицы		
Физический	Номинальное значение	Единица измерения	Метод испытания
Удельный вес	0.920	g/cm ³	ASTM D792
Степень перекрестной вязки-Извлечение		%	ASTM D2765A
Предел прочности при растяжении			ASTM D638

14 days : 150°C	> 75	%	ASTM D638
30 days : 121°C	> 75	%	ASTM D638
30 days : 136°C	> 75	%	ASTM D638
Коэффициент удлинения			ASTM D638
14 days : 150°C	> 75	%	ASTM D638
30 days : 121°C	> 75	%	ASTM D638
30 days : 136°C	> 75	%	ASTM D638
Горячий ползет (200 °C)			ICEA T-28-562
Термоустановка (200 °C)			ICEA T-28-562
Скорость роста водного дерева ¹	10	%	ASTM D6097
Относительный Размер водного дерева ²	25 - 50	%	ASTM D6097

Механические	Номинальное значение	Единица измерения	Метод испытания
Прочность на растяжение	20.0	МПа	ASTM D638
Удлинение при растяжении (Break)	500	%	ASTM D638
Электрический	Номинальное значение	Единица измерения	Метод испытания
Сопrotивление громкости (23°C)	> 1.0E+15	ohms-cm	ASTM D257
Диэлектрическая прочность			ASTM D149
3.18 мм ³	26	kV/mm	ASTM D149
3.18 мм ⁴	23	kV/mm	ASTM D149
Диэлектрическая постоянная (60 Hz)	2.30		ASTM D150
Коэффициент рассеивания (60 Hz)	5.0E-4		ASTM D150

Дополнительная информация

Nominal property values above represent tests on molded, stress-relieved slabs. Cure times were 15 minutes at 175°C. Cleanliness Requirements HFDB-4202 NT meets standards for cleanliness. Throughout the production process, the product is tested to ensure the level of cleanliness. Extruded tapes are scanned by an automatic inspection system in a class 10,000 clean room. The purity data is managed using an acceptance sampling plan which ensures that the product in the shipping container meets the quality standards.

Maximum Allowable in 1.6 Kg Tape: HFDB-4202 NT

5-9.9 mils (125-250 µm): 3

10-25 mils (250-630 µm): 2

>25 mils (>630 µm): 0

In addition, as HFDB-4202 NT is packaged, a continuous side stream of pellets is analyzed using an electronic pellet inspector. A review of detected contamination is incorporated into our quality program.

Storage

The environment or conditions of storage greatly influences the recommended storage time. Storage under extreme conditions may affect the quality, processing, or performance of the product. Storage should be in accordance with good manufacturing practices. The recommended storage conditions are dry conditions with temperatures between 50°F and 86°F (10°C and 30°C). When stored under these conditions, the product may be used by the customer for up to one year from the date of sale or two years from the date of manufacture, whichever comes first. It is recommended that the practice of using the product on a first-in / first-out basis be established.

Экструзия	Номинальное значение	Единица измерения
Температура расплава	116 - 141	°C

Инструкции по экструзии

HFDB-4202 NT provides excellent surface finish and outstanding output rates over a broad range of conditions. For optimum results, melt extrusion temperatures in the range of 240 to 285°F (116-140°C) are recommended, although higher melt temperatures are possible on certain equipment with due care. Generally, a 60-40-20 screen pack is recommended. However, specific recommendations for processing conditions can be determined when the application and type of processing equipment are known.

NOTE

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| 1. | Rate is relative to rate for Dow's standard XLPE. FREQ = 1 kHz. |
| 2. | Size is relative to size for Dow's standard XLPE |
| 3. | Method A (short time) |
| 4. | Method B (step by step) |

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