

DOW™ Electrical & Telecommunications HFDB-4201 SC K

Super Clean Polyethylene Compound for High Voltage Power Cable Insulation

The Dow Chemical Company

Описание материалов:

HFDB-4201 SC K is a long-life, cross linkable, low-density, polyethylene insulation compound of high cleanliness and purity developed especially for the insulation of High Voltage power cables. HFDB-4201 SC K is equipped with a non-migrating stabilizer providing high thermal stability, long term storage stability, and optimum cross-linking behavior.

Applications:

HFDB-4201 SC K is recommended especially for the insulation of High Voltage power transmission and distribution cables, <= 220kV.

Specifications:

Cables insulated with HFDB-4201 SC sb K would be expected to meet the requirements in the following standards when processed using state-of-the-art cable manufacturing practices:

IEC: 62067, 60840

CENELEC: HD 632 S2

AEIC: CS9

ANSI/ICEA: 108-720-2004

GB/T 11017, GB/T 18890

Главная Информация			
Рейтинг агентства	AEIC CS9 HD 632 S2 ICEA S-108-720 IEC 60840 IEC 62067		
Формы	Частицы		
Физический	Номинальное значение	Единица измерения	Метод испытания
Плотность ¹	0.921	g/cm ³	ISO 1183
Массовый расход расплава (MFR) (130°C/2.16 kg)	0.30	g/10 min	ISO 1133
Влага ²		ppm	Internal method
Изменение растяжимых свойств-10 дней(150 °C)		%	IEC 60811-1-1
Термокомплект ³			IEC 811-2-1
Elongation under Load : 200°C		%	IEC 811-2-1
Permanent Deformation : 200°C		%	IEC 811-2-1
Готферт эластограф-Крутящий момент	0.60	N·m	ISO 6502
Скорость реакции-T90(180 °C)	5.0	min	ISO 6502
Механические	Номинальное значение	Единица измерения	Метод испытания
Прочность на растяжение	20.0	MPa	IEC 60811-1-1
Удлинение при растяжении (Break)	500	%	IEC 60811-1-1

Электрический	Номинальное значение	Единица измерения	Метод испытания
Сопrotивление громкости	> 1.0E+16	ohms-cm	IEC 60093
Диэлектрическая прочность	> 30	kV/mm	IEC 60243-1
Диэлектрическая постоянная (1 MHz)	< 2.30		IEC 60250
Коэффициент рассеивания (50 Hz)	< 3.0E-4		IEC 60250

Дополнительная информация	Номинальное значение	Единица измерения	Метод испытания
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Cleanliness:

High cleanliness is assured through a number of precautions taken during the manufacturing of DOW HFDB-4201 SC K

The specifications are set to exclude contaminants >100µm.

These specifications are based on online continuous sampling and testing.

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.

Packaging:

HFDB-4201 SC K can be delivered in 500kg UNICLEAN™ big bags or in 1000kg bottom unloading octabins.

Экструзия	Номинальное значение	Единица измерения
Температура расплава	115 - 140	°C

Инструкции по экструзии

HFDB-4201 SC K provides outstanding output rates over a broad range of conditions. For optimum results, melt extrusion temperatures of <= 135°C are recommended.

Screen packs are only required if there is a need to improve the homogenization of the melt or as protection from contamination entering during unloading and processing. HFDB-4201 SC K allows the use of fine mesh screens. Specific recommendations for processing conditions can be determined when the application and processing equipment type are known.

At start-up, it is recommended to use DFDK-4850 NT start-up compound to achieve stable extruder conditions

NOTE

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| 1. | Base resin |
| 2. | Karl Fischer titration |
| 3. | 0.2 MPa |

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