

Dow ENDURANCE™ HFDK-0587 BK S

Crosslinkable Semiconductive Shielding Compound with Superior Smoothness

The Dow Chemical Company

Описание материалов:

DOW ENDURANCE™ HFDK-0587 BK S is a crosslinkable semi-conductive compound based on an ethylene copolymer, and a select clean furnace type carbon black providing excellent smoothness compared to standard semicons.

DOW ENDURANCE HFDK-0587 BK S offers outstanding extrusion properties. Low pressure and temperature generation result in outstanding scorch resistance and excellent smoothness under a wide processing window.

Applications

DOW ENDURANCE HFDK-0587 BK S is recommended as conductor and bonded insulation shielding for high voltage XLPE power cables. DOW ENDURANCE HFDK-0587 S is especially developed for use in high voltage cables, where it provides a clean and smooth interface with the insulation XLPE. DOW ENDURANCE HFDK-0587 BK S provides a good resistance to welding when high degassing temperatures are used.

DOW ENDURANCE HFDK-0587 BK S is preferably combined with DOW ENDURANCE™ HFDK-4201 SC, or DOW ENDURANCE™ HFDK-4300 SC insulation compounds.

For EHV applications, the use of DOW ENDURANCE™ HFDK-0801 EHV is recommended for use as conductor shielding.

Specifications

Power cables with conductor and/or insulation shielding made of DOW ENDURANCE HFDK-0587 BK S, prepared using sound, commercial fabrication practice, would be expected to meet the following cable specification(s):

IEC: 60502, 60840 and 62067

HD: 620 S1 and 632 S1

BS: 6622

DIN: VDE 0273 and 0263

Edf: HN-33-S-23 and HN-33-S-52

US: ICEA S-108-720

Consult the regulations for complete details.

Главная Информация

Используется	Высоковольтный полупроводниковый щит
	Полупроводниковый щит
	Подземный Кабель
	Защита кабеля
	Применение проводов и кабелей

Рейтинг агентства	BS 6622
	EDF HN 33-S-23
	EDF HN 33-S-52
	HD 620 S1
	HD 632 S1
	ICEA S-108-720
	IEC 60502
	IEC 60840
	IEC 62067
	VDE 0263
	VDE 0273

Формы	Частицы		
Физический	Номинальное значение	Единица измерения	Метод испытания
Плотность	1.10	g/cm ³	ISO 1183
Moisture Content	400	ppm	DIN 53715
Механические	Номинальное значение	Единица измерения	Метод испытания
Прочность на растяжение	21.0	MPa	IEC 60811-1-1
Удлинение при растяжении (Break)	200	%	IEC 60811-1-1
Старение	Номинальное значение	Единица измерения	Метод испытания
Прочность на растяжение-10 дней(150 °C)	90	%	IEC 60811-1-1
Коэффициент удлинения-10 дней(150 °C)	90	%	IEC 60811-1-1
Термокомплект ¹			IEC 811-2-1
Elongation with Load : 200°C	40	%	IEC 811-2-1
Elongation without Load : 200°C	0.0	%	IEC 811-2-1
Электрический	Номинальное значение	Единица измерения	Метод испытания
Сопrotивление громкости			IEC 60093
23°C	10	ohms-cm	IEC 60093
90°C	30	ohms-cm	IEC 60093

Дополнительная информация

Smoothness

DOW ENDURANCE HFDK-0587 BK S meets the strict standards of smoothness established for a crosslinkable semi conductive shielding compound for power cable. Throughout the production process, the product is tested to ensure smoothness. Extruded tapes are scanned by an automatic inspection system in a clean room. The tape smoothness data is managed using an acceptance sampling plan, which ensures that the material in each shipping container meets or exceeds the products smoothness standard. The DOW ENDURANCE HFDK-0587 BK S material smoothness standard has been designed to approach that offered by acetylene based supersmooth semi conductive compounds, thus meeting requirements for HV and select EHV use.

Инструкции по экструзии

DOW ENDURANCE HFDK-0587 BK S provides excellent surface finish and outstanding processing behavior over a broad range of conditions. For optimum results, melt extrusion temperatures in the range of 120 to 135°C are recommended. The following extruder barrel and die setting are recommended as a starting point while learning to process DOW ENDURANCE HFDK-0587 BK S. Specific machine settings will depend on the extruder and die designs and must be established through conventional practices. In general a 20/80 mesh screen pack is advised.

For Mallefer extruders, a dual flight metering screw of 20-22/1, L/D and 2.0-2.5 compression ratio, running at 8-20 rpm is recommended.

For Troester extruders, if screw cooling is not used, or is used at relatively high settings of around 105°C, Z1 and Z2 should be run somewhat cooler than indicated below. Running the screw cooling at around 85°C reduces the specific output, practical for HV use.

Recommended drying conditions are 70°C for 4 h, the target moisture level being below 500 ppm. Default temperature settings for Mallefer 20 D Extruders with normal screw:

Feed Section: 25°C

Zone 1: NXW 80°C, MPW 60°C

Zone 2: 100°C

Zone 3: 110°C

Zone 4: 110°C

Zone 5-6 Clamp: 110°C

Zone 7-8 Connection: 120°C

Head/Die: 120°C

Screw Cooling: None

Hopper Cooling: None

Default temperature settings for Troester extruders:

Feed Section: 50 to 60°C

Zone 1: 110 to 115°C

Zone 2: 115°C

Zone 3: 115°C

Zone 4: 115°C

Zone 5-6 Clamp: 115 to 120°C

Zone 7-8 Connection: 120°C

Head/Die: 120°C

Screw Cooling: 85°C

Hopper Cooling: None

NOTE

1. 0.4 MPa

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Свяжитесь с нами

Susheng Import & Export Trading Co.,Ltd.

Телефон: +86-021-58958519

Мобильный телефон: +86-13424755533

Email: sales@su-jiao.com

Адрес: Господин Чжао

Район Фэнсянь, Шанхай, Китай



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