

Dow ENDURANCE™ HFDK-0587 BK

Crosslinkable Semiconductive Shielding Compound

The Dow Chemical Company

Описание материалов:

DOW ENDURANCE™ HFDK-0587 BK is a crosslinkable semi-conductive compound based on an ethylene copolymer, DOW ENDURANCE HFDK-0587 BK offers outstanding extrusion properties and allows high rates. Low pressure and temperature generation result in outstanding scorch resistance and excellent smoothness under a wide processing window.

Applications

DOW ENDURANCE HFDK-0587 BK is recommended as conductor and bonded insulation shielding for medium voltage XLPE power cables. DOW ENDURANCE HFDK-0587 is especially developed for high speed production in combination with DOW ENDURANCE™ HFDK-4202 EC and HFDK-4201 EC insulation compounds.

Specifications

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

IEC: 60502 and 60840

HD: 620 S1 and 632 S1

BS: 6622

DIN: VDE 0273 and 0263

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

Consult the regulations for complete details.

Главная Информация			
Используется	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 IEC 60502 IEC 60840 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 ¹	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 ²			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 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 material in each shipping container meets or exceeds the products smoothness standard. For DOW ENDURANCE HFDK-0587 BK the material smoothness standard has been designed to meet the stringent CENELEC industry specifications for semi conductive shielding materials on cable, also during high speed cable production.

Экструзия	Номинальное значение	Единица измерения
Температура сушки	70.0	°C
Время сушки	4.0	hr
Температура расплава	120 - 140	°C

Инструкции по экструзии

DOW ENDURANCE HFDK-0587 BK 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 140°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. 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 5-20 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.

Recommended drying conditions are 70°C for 4 h. 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 to 105°C

Hopper Cooling: None

NOTE

- | | |
|----|-----------|
| 1. | 25 mm/min |
| 2. | 0.4 MPa |

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