

Dow ENDURANCE™ HFDC-0586 BK S

Crosslinkable Semiconductive Shielding Compound

The Dow Chemical Company

Описание материалов:

DOW ENDURANCE™ HFDC-0586 BK S is a specially formulated semiconductive, vulcanizable compound designed for use as an extruded conductor shield and bonded insulation shield applications in medium and high voltage crosslinked polyethylene insulated cables.(1) DOW ENDURANCE™ HFDC-0586 BK S has stable volume resistivity characteristics at elevated temperatures and is formulated with a polymer system that has demonstrated compatibility with copper and aluminum conductors. DOW ENDURANCE™ HFDC-0586 BK S meets stringent requirements for product smoothness. For conductor shield of HV and EHV cables rated above 138 kV, the supersmooth semiconductive compound, DOW ENDURANCE™ HFDA-0801 BK EC, formulated with an acetylene carbon black is recommended.

Specifications

DOW ENDURANCE™ HFDC-0586 BK S is designed for use in power distribution cables. Cables with conductor and insulation shielding of DOW ENDURANCE™ HFDC-0586 BK S, prepared using sound commercial fabrication practice, would be expected to meet the following specifications:

AEIC: CS8, CS9

BS: 6622

CEA: WCWG-01, WCWG-02

ICEA: S-94-649, S-97-682 AND S-66-524 (NEMA WC7)

IEC: 60502, 60840

DIN: VDE 0273, 0263

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

ESI: 09-14

HD: 620 S1

UL: 1072

(1) DOW ENDURANCE™ HFDC-0586 BK S is recommended for use in conjunction with DOW cross-linked polyethylene and tree-retardant cross-linked polyethylene compounds For other polymer insulations such as EPR and EPDM's the user is cautioned to establish the utility of DOW ENDURANCE™ HFDC-0586 BK with each formulation.

Главная Информация

Рейтинг агентства

AEIC CS8

AEIC CS9

BS 6622

EDF HN 33-S-23

EDF HN 33-S-52

HD 620 S1

ICEA S-66-524

ICEA S-94-649

ICEA S-97-682

IEC 60502

IEC 60840

(Национальная ассоциация владельцев электротехнических WC-7

UL 1072

VDE 0263

VDE 0273

Формы

Частицы

Физический	Номинальное значение	Единица измерения	Метод испытания
Удельный вес	1.09	g/cm ³	ASTM D792
Экологическое сопротивление растрескиванию (100% Igepal, F0)	> 504	hr	ASTM D1693
Механические	Номинальное значение	Единица измерения	Метод испытания
Прочность на растяжение	16.9	MPa	ASTM D638
Удлинение при растяжении (Break)	320	%	ASTM D638
Старение	Номинальное значение	Единица измерения	Метод испытания
Прочность на растяжение-1 неделя (150°C)	95	%	ASTM D638
Коэффициент удлинения-1 неделя (150°C)	95	%	ASTM D638
Тепловой	Номинальное значение	Единица измерения	Метод испытания
Температура ломкости	-40.0	°C	ASTM D746
Электрический	Номинальное значение	Единица измерения	Метод испытания
Сопrotивление громкости			ASTM D991
23°C	15	ohms-cm	ASTM D991
90°C	40	ohms-cm	ASTM D991
130°C	40	ohms-cm	ASTM D991

Дополнительная информация

Nominal property values above represent tests on molded, stress-relieved slabs. Cure times were 15 minutes at 175°C. Smoothness DOW ENDURANCE™ HFDC-0586 BK S meets the strict standards of smoothness established for a cross linkable cable semiconductive shield compound. 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 shipping container meets or exceeds the product's smoothness standard. The smoothness standard of DOW ENDURANCE™ HFDC-0586 BK S has been designed to meet the industry expectations for semiconductive shield materials in high voltage cables.

Each batch of DOW ENDURANCE™ HFDC-0586 BK S meets the following smoothness requirement:

Protrusion Height / Maximum Allowable

60-69 μm / 1 per m²

>75 μm / 0 per m²

Storage

The environment or conditions of storage greatly influences the recommended storage time. Storage should be in accordance with good manufacturing practices. If proper warehousing and storage temperatures [dry conditions, between 50°F and 86°F (10°C and 30°C) in temperature] are utilized, this product may be stored by the customer for up to one year. It is recommended that the practice of using the product on a first-in / first-out basis be established. Storage under extreme conditions may affect the quality, processing, or performance of the product.

Экструзия	Номинальное значение	Единица измерения
Температура сушки	60.0	°C
Время сушки	< 6.0	hr
Температура расплава	116 - 141	°C

Инструкции по экструзии

DOW ENDURANCE™ HFDC-0586 BK S provides excellent surface finish and outstanding output rates over a broad range of conditions. For optimum results, melt extrusion temperatures in the suggested range of 240 to 285°F (115 to 140°C) to avoid pre-cure or scorch. Extruder barrel settings of 110°C (230°F) are suggested as a starting point while learning to process DOW ENDURANCE™ HFDC-0586 BK S. Specific machine settings will depend on the extruder design and must be established through conventional practices. Dehumidified hopper drying at 140°F (60°C) for up to 6 hours may be employed to remove moisture prior to extrusion.

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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

