

Dow ENDURANCE™ HFDA-0800 BK EC

Supersmooth, Extra-Clean, Crosslinkable Semiconductive Shielding Compound

The Dow Chemical Company

Описание материалов:

DOW ENDURANCE™ HFDA-0800 BK EC is a specially formulated semiconductive, vulcanizable compound designed for conductor shield and bonded insulation shield applications in medium and high voltage crosslinked polyethylene insulated cables.(1) DOW ENDURANCE™ HFDA-0800 BK EC has stable volume resistivity characteristics at elevated temperatures and is formulated with a polymer system that has demonstrated compatibility with copper conductor.

DOW ENDURANCE™ HFDA-0800 BK EC was specifically developed utilizing a special acetylene carbon black to provide a supersmooth surface to achieve best in class performance and yielding a more perfect interface between the extruded shield and the insulation. As a result, significantly improved cable performance can be expected.

Specifications

DOW ENDURANCE™ HFDA-0800 BK EC is designed for use in power distribution cables. Cables with conductor and insulation shielding of DOW ENDURANCE™ HFDA-0800 BK EC, prepared using sound commercial fabrication practice, would be expected to meet the following specifications: ANSI/ICEA: S-94-649, S-97-682, S-93-639 / NEMA WC74

AEIC: CS8 IEC: 60502

(1) DOW ENDURANCE™ MV A-0800 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™ MV A-0800 with each formulation.

Главная Информация				
Используется	Полупроводниковый щит среднего напряжения			
	Полупроводниковый щит			
	Подземный Кабель			
	Защита кабеля			
	Применение проводов и кабелей			
Рейтинг агентства	AEIC CS8			
	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	1.15	g/cm³	ASTM D792	
Экологическое сопротивление растрескиванию (100% Igepal, F0)	> 504	hr	ASTM D1693	
Механические	Номинальное значение	Единица измерения	Метод испытания	
Прочность на растяжение	14.5	MPa	ASTM D638	
Удлинение при растяжении (Break)	200	%	ASTM D638	



Тепловой	Номинальное значение	Единица измерения	Метод испытания
Температура ломкости	-40.0	°C	ASTM D746
Электрический	Номинальное значение	Единица измерения	Метод испытания
Сопротивление громкости			ASTM D991
23°C	15	ohms·cm	ASTM D991
90°C	60	ohms·cm	ASTM D991
130°C	65	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.Extra-Clean Requirements Among many desirable characteristics, DOW ENDURANCE™ HFDA-0800 BK EC is extra-clean. DOW ENDURANCE™ HFDA-0800 BK EC typically has less than 0.005% sulfur and less than 0.01% ash. The raw materials used for DOW ENDURANCE™ HFDA-0800 BK EC are cleaner by design than those used for conventional semiconductive materials. Additional precautions are employed during the manufacture of DOW ENDURANCE™ HFDA-0800 BK EC relative to conventional conductor shields to prevent introduction of any contamination to the raw materials and to the final product. These low levels of contamination can be expected to play a positive role in the manufacture of a totally extra-clean cable. Supersmooth Extruded Surface

DOW ENDURANCETM HFDA-0800 BK EC meets strict standards of smoothness established for a crosslinkable semiconductive shield compound. The extruded surface of DOW ENDURANCETM HFDA-0800 BK EC must meet a smoothness specification that is more rigorous that conventional semiconductive shields. 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 DOW ENDURANCETM HFDA-0800 BK EC smoothness standard has been designed to meet the global industry specifications for semiconductive shield materials on medium and high voltage cables.

Each batch of DOW ENDURANCE™ HFDA-0800 BK EC meets the following smoothness requirement:

Protrusion Height / Maximum Allowable

 $60-74 \mu m / 0 per m^2$

 $>75~\mu m$ / 0 per m^2

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 - 70.0	°C
Время сушки	< 6.0	hr
Температура расплава	121 - 140	°C

Инструкции по экструзии

DOW ENDURANCE™ HFDA-0800 BK EC provides excellent surface finish and outstanding output rates over a broad range of conditions. For optimum results, use melt extrusion temperatures in the suggested range of 250 to 285°F (121 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™ HFDA-0800 BK EC. Specific machine settings will depend on the extruder design and must be established through conventional practices. Dehumidified air hopper drying at 140-160°F (60-70°C) for up to six hours may be employed to remove residual moisture prior to extrusion. Drying is not necessary for DOW ENDURANCE™ HFDA-0800 BK EC due to the lower moisture absorption characteristics relative to conventional semiconductive products.

Свяжитесь с нами

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