

## Dow ENDURANCE™ HFDA-0693 BK

Strippable Semiconductive Insulation Shielding Compound

The Dow Chemical Company

### Описание материалов:

DOW ENDURANCE™ HFDA-0693 BK is a specially formulated semiconductive, vulcanizable compound designed for use in conventional extrusion practices as a strippable insulation shield for medium voltage power cable. HFDA-0693 BK was designed to have excellent processability, while having improved resistance to blocking during storage. HFDA-0693 BK is recommended for use over Dow crosslinked polyethylene compounds. This product provides a moderate strip force over a wide temperature range when used in conjunction with these insulation materials.

#### Specifications

DOW ENDURANCE™ HFDA-0693 BK is designed for use in power distribution cables. Cables with conductor and insulation shielding of DOW ENDURANCE™ HFDA-0693 BK, 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: CS 8

IEC 60502

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
Плотность	1.16	g/cm <sup>3</sup>	ASTM D1505
Механические	Номинальное значение	Единица измерения	Метод испытания
Прочность на растяжение (Break)	11.7	MPa	ASTM D638
Удлинение при растяжении (Break)	320	%	ASTM D638
Старение	Номинальное значение	Единица измерения	Метод испытания
Прочность на растяжение-1 неделя (136°C)	95	%	ASTM D638
Коэффициент удлинения-1 неделя (136°C)	230	%	ASTM D638
Сила сцепления кабеля-Сухое лечение <sup>1</sup> (23°C)	3.5 - 5.6	kN/m	Internal method

Тепловой	Номинальное значение	Единица измерения	Метод испытания
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Температура ломкости	< -40.0	°C	ASTM D746
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Электрический	Номинальное значение	Единица измерения	Метод испытания
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Сопrotивление громкости			ASTM D991
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23°C <sup>2</sup>	1.0E+2 - 4.0E+2	ohms-cm	ASTM D991
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23°C <sup>3</sup>	25	ohms-cm	ASTM D991
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90°C <sup>4</sup>	1.0E+2 - 4.0E+2	ohms-cm	ASTM D991
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90°C <sup>5</sup>	50	ohms-cm	ASTM D991
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110°C <sup>6</sup>	1.0E+2 - 4.0E+2	ohms-cm	ASTM D991
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110°C <sup>7</sup>	50	ohms-cm	ASTM D991
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Дополнительная информация	Номинальное значение	Единица измерения	Метод испытания
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Nominal property values above represent tests on molded stress-relieved slabs. Cure times were 15 minutes at 175°C. 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 75°F (10°C and 23°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. Storage at elevated temperatures should be avoided to prevent blocking. Pellets are readily friable should blocking be experienced.

Экструзия	Номинальное значение	Единица измерения
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Температура расплава	115 - 125	°C
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#### Инструкции по экструзии

DOW ENDURANCE™ HFDA-0693 BK 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 235 to 255°F (115 to 125°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-0693 BK. Specific machine settings will depend on the extruder design and must be established through conventional practices. The curing temperature should be carefully controlled, and the maximum surface temperature in the CV tube should not exceed 527°F (275°C) for optimum results. DOW ENDURANCE™ HFDA-0693 BK can be handled in the same fashion as other vulcanizable polyolefin semiconductive materials. It is available in regular or UNICLEAN™ boxes and can be air-conveyed at transport temperatures of 75°F (24°C) or below. Do not use a heated dryer with HFDA-0693 BK as pellets may fuse. During shutdowns exceeding one hour, DOW ENDURANCE™ HFDA-0693 BK pellets should be removed from potentially warm hopper bins to avoid fusing. Extruder feed-throat cooling is recommended to improve feed efficiency.

NOTE
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1.	Cable adhesion values are typical for dry cure at room temperature. Values will vary with cable size, insulation type, type of cure, temperature, speed of test, etc.
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2.	on cables
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3.	on plaques
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4.	on cables
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5.	on plaques
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6.	on cables
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7.	on plaques
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## 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

