Dow ENDURANCE™ HFDA-0693 BK LS

Strippable Semiconductive Insulation Shielding Compound

The Dow Chemical Company

Описание материалов:

DOW ENDURANCE™ HFDA-0693 BK LS is specially formulated semiconductive, vulcanizable compound designed for use in conventional extrusion practices as a strippable insulation shield for medium voltage power cable. DOW ENDURANCE™ HFDA-0693 BK LS was designed to have excellent extrusion processing. DOW ENDURANCE™ HFDA-0693 BK LS is an easy stripping insulation shield recommended for use over DOW ENDURANCE™ crosslinked polyethylene compounds. This product provides low strip force over a wide temperature range when used in conjunction with Dow insulation materials.
Specifications:
DOW ENDURANCE™ HFDA-0693 BK LS is designed for use in power distribution cables. Cables with conductor and insulation shielding of DOW ENDURANCE™ HFDA-0693 BK LS, 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	1.18	g/cm³	ASTM D1505
Механические	**Номинальное значение**	**Единица измерения**	**Метод испытания**
Прочность на растяжение			ASTM D638
Fracture	14.5	MPa	ASTM D638
Fracture, 136°C [1]	13.8	MPa	ASTM D638
Удлинение при растяжении			ASTM D638
Fracture	280	%	ASTM D638
Fracture, 136°C [2]	150	%	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			
23°C [3]	1.0E+2 - 4.0E+2	ohms·cm	S-66-524
23°C [4]	25	ohms·cm	ASTM D991
90°C [5]	1.0E+2 - 4.0E+2	ohms·cm	S-66-524
90°C [6]	30	ohms·cm	ASTM D991
110°C [7]	1.0E+2 - 4.0E+2	ohms·cm	S-66-524
110°C [8]	30	ohms·cm	ASTM D991
Дополнительная информация	**Номинальное значение**	**Единица измерения**	**Метод испытания**
Сила сцепления кабеля-Сухое лечение [9] (23°C)	2.1 - 4.2	kN/m	Internal method
Кормовая часть экструдера	43 - 60	°C	

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**
Зона цилиндра 1 темп.	82.2 - 87.8	°C
Зона цилиндра 2 температура.	93.3 - 98.9	°C
Зона цилиндра 3 темп.	98.9 - 110	°C
Зона цилиндра 4 темп.	104 - 110	°C
Зона цилиндра 5 темп.	107 - 110	°C
Температура расплава	115 - 125	°C

Инструкции по экструзии

DOW ENDURANCE™ HFDA-0693 BK LS 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 LS. 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. Extruder feed-throat cooling is recommended to improve feed efficiency.DOW ENDURANCE™ HFDA-0693 BK LS 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 LS pellets should be removed from potentially warm hopper bins to avoid fusing.

NOTE	
1.	1 week
2.	1 week
3.	on cables
4.	on plaques
5.	on cables
6.	on plaques
7.	on cables

8.	on plaques
9.	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.

Свяжитесь с нами

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