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Hanwha Solutions

CTBA-8740BK

Wire & Cable Compound

Conductor and Insulation Shield **Density** **1.14**

Description
CTBA-8740BK is a semiconductive compound and has an excellent electrical conductivity, scorch stability and surface smoothness.

Applications
CTBA-8740BK can be used for bonded typed, conductor and insulation shielding of high voltages up to 161kV (Um 170kV).

Specifications
CTBA-8740BK meets the applicable requirements as below when processed using sound extrusion practice and testing procedure:

IEC 60840
IEC 60502-2
ANSI/ICEA S-108-720
ANSI/ICEA S-93-639
Cenelec HD 632 S1
ANSI/ICEA S-94-649
ANSI/ICEA S-97-682
AEIC CS8, CS9
UL 1072

Physical Properties	Unit	Test Method	Typical Value
Density	g/cm^3	ASTM D1505	1.14
Tensile Strength	kg/cm^2	ASTM D638	150
Elongation	%	ASTM D638	190
Oven Aging @ 135 °C, 7 days			
Retention of Tensile Strength	%	ASTM D638	>90
Retention of Elongation	%	ASTM D638	>85
Low Temperature Brittleness	°C	ASTM D746	<-40
Hardness (Shore D, 1 sec.)	-	ASTM D2240	58
Electrical Properties	**Unit**	**Test Method**	**Typical Value**

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DC Volume Resistivity			
23 ℃	ohm cm	ASTM D257	<100
90 ℃	ohm cm	ASTM D257	<500

1) These are typical properties and are not to be regarded as specifications.
2) Under 200 mm/minute testing speed by molded / dumbbell shaped sheet

Processing Guidelines

CTBA-8740BK provides excellent surface finish and higher output rates over a broad range of conditions. For optimum results, melt extrusion temperatures in the range of 100~110 ℃ is recommended. If needed, hopper drying at 50~60 ℃ for 3~5 hours is recommended to remove moisture.

Storage

The material should be stored indoors (10~30℃) in closed original packages in clean and dry environment. It is recommended that the using of the product on a first-in, first-out basis be established. Then recommended storage time at customer should not exceed 1 year.

Quality Systems

Hanwha maintains a quality management system according to ISO 9001. This system provides traceability of individual batches and their production. If process is changed in a way that suspected to change the properties of the product, Hanwha will provide adequate information to the customer.

Certificate

Based on quality inspection data at production, Hanwha supplies an inspection certificate for each batch. The certificate contains:

Product name
Batch number
Production date
etc.

Data Sheet and Safety

Most data sheets and safety data sheets are available on Hanwha web site, http://hcc.hanwha.co.kr Please contact your Hanwha representative for more details on various aspects of safety, recovery and disposal of the product.