

Conductor and Insulation Shield

Density

1.14

## Description

CTBB-8720BK is a semiconductive compound and has an excellent scorch stability and good surface smoothness, so it is used for the triple coextrusion head.

## Applications

CTBB-8720BK can be used for bonded typed, conductor and insulation shielding of medium voltage(up to 72 kV) power cables.

## Specifications

CTBB-8720BK meets the applicable requirements as below when processed using sound extrusion practice and testing procedure:

ICEA S-66-524, S-94-649  
 AEIC CS5, CS7  
 IEC 60502

BS 6622  
 VDE 0263, 0273

Physical Properties	Unit	Test Method	Typical Value
Density	g/cm <sup>3</sup>	ASTM D1505	1.14
Tensile Strength	kg/cm <sup>2</sup>	ASTM D638	190
Elongation	%	ASTM D638	200
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

  

Electrical Properties	Unit	Test Method	Typical Value
DC Volume Resistivity			
23°C	ohm cm	ASTM D257	<200
90°C	ohm cm	ASTM D257	<1,000

- 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**

CTBB-8720BK 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 °C is recommended. If needed, hopper drying at 50~60 °C for 3~5 hours is recommended to remove moisture.

## **Storage**

The material should be stored indoors(15~25 °C) 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.

