

DOW™ Electrical & Telecommunications

DHDA-7700 BK

Thermoplastic Semiconductive Shielding Compound

The Dow Chemical Company

Message:

DHDA-7700 BK is a specially formulated thermoplastic compound designed for use as a semiconductive shield in medium voltage cable applications. DHDA-7700 BK 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.

DHDA-7700 BK is also useful for start-up, shut down, transition, and purging of medium and high voltage (5 kV and higher) power cable semiconductive shield extruders. DHDA-7700 BK is compatible with the DOW ENDURANCE™ HFDA-0800 BK and HFDA-0801 BK supersmooth semiconductive shields and has a high degree of cleanliness required for these applications.

General Information			
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.14	g/cm ³	ASTM D792
Additional Information			

Cleanliness RequirementsDHDA-7700 BK is designed to meet strict standards of smoothness established for a semiconductive shield compound.

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. **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.

Extrusion	Nominal Value	Unit
Melt Temperature	116 - 138	°C
Extrusion instructions		

DHDA-7700 BK is a thermoplastic compound designed to be compatible with vulcanizable power cable semiconductive shield compounds produced by The Dow Chemical Company. Although DHDA-7700 BK is a thermoplastic material and can withstand higher extrusion melt temperatures than vulcanizable compounds, melt extrusion temperatures in the range of 240 to 280°F (116 to 140°C) are recommended. This melt temperature range is recommended to reduce the potential for premature crosslinking (or scorch) in the vulcanizable compound when transitioning to or from DHDA-7700 BK. Process modifications should not be required during transitions to or from the DHDA-7700 BK.

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