

**COMPOSITE GRAPHITE PLATES**  
**Material code: SG9780061010**

**1. Description:** Composite graphite plates

**2. Technical Details:**

Sl no	Description	BHEL Specifications
1	Dimensions	350 L X 250 W X 3 Thick
2	Glass transition temperature	$\geq 120$ Deg. C
3	Tolerance in thickness variations	$\pm 0.03$ mm
4	Operating Temperature	90 Deg. C
5	Through Plane Electrical conductivity	$\geq 55$ S/cm (A certificate stating the methodology adopted for measuring through plane electrical conductivity and readings obtained to be furnished)
6	Gas permeability	$\leq 10^{-3}$ cm <sup>3</sup> /cm <sup>2</sup> .s
7	Compressive strength	$\geq 40$ MPa
8	Specific gravity	$\geq 1.80$ g/cm <sup>3</sup>
9	Material	Composite graphite
10	Binder resin & Graphite content in moulded graphite plate	Binder resin content:12-18wt% & Graphite content: 82-88%
11	Thermal conductivity	$\geq 18$ W/mK

**3. TEST CERTIFICATES:**


The following certificates shall be submitted by supplier:

- a) Duly signed manufacturers test certificate
- b) Country of origin on supplier's letter head in case of foreign vendor
- c) Guarantee Certificate

**4. GUARANTEE CERTIFICATE:**

A guarantee certificate for 18 months of trouble free performance from the date of shipment or 12 months from the date of commissioning whichever is earlier shall be furnished.

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TD-106-1 Rev No. 5	Form No.		<b>PRODUCT STANDARD          SWITCHGEAR          HYDERABAD</b>		<b>Product          STD NO.</b>	<b>SG 80061</b>
<p style="text-align: center;"> <b>COPYRIGHT AND CONFIDENTIAL</b>            The information on this document is the property of BHARAT HEAVY ELECTRICALS LIMITED,            It must not be used directly or indirectly in any way detrimental to the interest of the company.         </p>				Rev No 00		
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				<p><b>5. PACKING:</b></p> <p>a) MEA shall be packed individually in a box. Such boxes shall be packed in a cardboard case with adequate cushioning material to withstand normal transit risks.</p> <p>b) The item shall be stored in a covered shed for long periods before installation. The packing shall be suitable for such storage.</p> <p><b>6. MARKING:</b></p> <p>The following details shall be marked on the packing case.</p> <p>a) Manufacturer's name or trade mark</p> <p>b) BHEL purchase order no.</p> <p><b>7. REPLACEMENT OF SUPPLIED ITEMS AGAINST MECHANICAL DEFECTS</b></p> <p>The vendor is responsible for replacement of items which are found to be mechanically defective at their own cost under warranty period.</p>		
<b>Revisions:</b>  <b>Refer to record of revisions:</b>		<b>Prepared:</b> K. SANGEETHA	<b>Approved:</b> LVRK	<b>Date:</b> 17.05.2023		

