

PRODUCT STANDARD

SWITCHGEAR ENGINEERING DIVISION

SG 10602 REV. 00

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EPOXY RESIN MOULDINGS WITH ALUMINA FILLER

1. **GENERAL**

This specification governs the quality of Alumina filled epoxy mouldings. This material is specially suitable for use inside SF6/ Arced SF6 gas media. Alumina filler in epoxy resin provides substential resistance to decomposed SF6 gas.

2. <u>APPLICATION</u>:

For making switchgear components used in SF6 gas media.

3. COLOUR

RED

4. <u>FINISH</u>

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The moulded material shall be smooth, compact, bright and free from cracks, blisters, gas pockets, foreign inclusion. It should have uniformly distributed bond.

5. TEST METHODS:

Unless otherwise specified the tests shall be conducted in accordance with the relevent methods of corporate standard AA0851701.

6. PROPERTIES:

Specific gravity,	2.35
Tensile strength, kg/ sqmm	5-9
Bending strength, kg/ sqmm	11-15
Impact strength, kg/ sqmm	0.6-1.3
Compression strength, kg/ sqmm	15-18
Young's modulus, kg/ mmxmm	900-1070 ⁻⁴
Heat expansion co-efficient	33x10
Heat deformation Temperature deg C	105

	REV.	00	PRINTS TO :-	APPROVED -		
	ALTD.		HVD - 1	VR		
	APPD.		MCD -1	PREPARED	ISSUED	DATE
	DATE.			DKD	ILB	22-7-94

बीएचईएल SG 10602 PRODUCT STANDARD **REV. 00** SWITCHGEAR ENGINEERING DIVISION **PAGE** 2 **OF** 2 Resistance, Ohm-cm 1x10 Insulation withstand, kV/mm 20-26 Power factor % 0.3 to 0.5 88-93 Hardness Conductivity 6.4 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 interest of Co. Water absorption % 0.03-0.05 7. Machinability: Shall be freely machinable and capable of being cut with an COPYRIGHT AND CONFIDENTIAL ordinary saw without showing any signs of splitting, cracking or chipping. 8. TEST CERTIFICATES: 3 copies of test certificates shall be supplied with each lot of components giving component name, drg No, BHEL P.O. No, Batch/ LOT No. and Test values observed against specified.