

ELECTRICAL RESEARCH AND DEVELOPMENT ASSOCIATION

ERDA Road, Makarpura Industrial Estate, Vadodara-390 010, India.

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TEST REPORT		SHEET 1 of 2
		REPORT No DATE
		ISDEWO0095079 2-9-2011
		CUSTOMER REF No DATED
		DATE OF SAMPLE RECEIPT
		DATES OF TESTING
		12-8-2011
		30-8-2011 to 1-9-2011
SAMPLE DESCRIPTION Glass Epoxy Sheet Grade : EP3 (FR4) Nominal thickness : 3.0 mm		SAMPLE IDENTIFICATION ERDA Sample Code : ISDEWO0095079
TEST DETAILS		TEST SPECIFICATION
Sr. No	Test particulars	
1.	Specific gravity	IS: 10192-1982
2.	Water absorption	-do-
3.	Tensile strength	-do-
4.	Cross breaking strength	-do-
5.	Electric strength	-do-
6.	Insulation resistance	-do-
7.	Flammability	ASTM D 635-91(Method of test only)
PREPARED BY		CHECKED BY
<i>A. B. Patil</i>		<i>[Signature]</i>
		APPROVED BY
		<i>[Signature]</i>
NOTE: 1. This report relates only to the particular sample received in good condition for testing at ERDA.		
2. This report cannot be reproduced in part under any circumstances.		

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REPORT No: ISDEWO0095079		DATE: 2-9-2011		SHEET 2 of 2	
Sr. No.	Particular of tests & Cl. No.	Requirements as per specification	Obtained value	Remarks	
1.	Specific gravity Cl. No.4.4	Min. 1.8	1.8	Conforms	
2.	Water absorption after 24 hrs immersion in water at 20°C, % Cl. No.: 4.4	Max. 0.20	0.04	Conforms	
3.	Measured Thickness: 2.8 mm Tensile strength, N/mm ² Cl. No.: 4.4	Min. 250	296	Conforms	
4.	Cross breaking strength, N/mm ² Cl. No.: 4.4	Min.350	446	Conforms	
5.	Electrical strength, ac (proof voltage test) in oil at 90°C Flat wise , kV Measured thickness :2.86 mm	Sample shall withstand 40 kV (@14 kV/mm) for one minute Without break-down.	Sample withstood 40kV for one minute without breakdown.	Conforms	
	Edgewise , kV Across 25 mm width	The sample shall withstand 40 kV for one minute Without break- down.	Sample withstood 40kV for one minute without breakdown.	Conforms	
6.	Insulation resistance after immersion in water at 20 °C for 24 hrs, MΩ Cl. No. : 4.4 Applied Voltage : 500 V DC Electrification Time : 60 Sec	Min. 10000	17500000	Conforms	
7.	Flammability Average Time of Burning (ATB), sec Average Extent of Burning (AEB), mm	-	Less than 5 5	-	
A. B. Patel PREPARED BY				CHECKED BY	

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