

ELECTRICAL RESEARCH AND DEVELOPMENT ASSOCIATION

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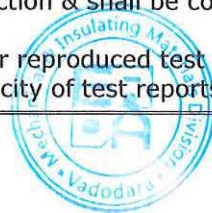
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TEST REPORT		SHEET 1 OF 2
NAME AND ADDRESS OF CUSTOMER Integra Engineering India Limited Unit-I, Post Box No. 55 Chandrapura village Tal. Halol-389 350. Dist. Panchmahals Gujarat, India.	REPORT No.	RP-1819-007283
	DATE	28-05-2018
	CUSTOMER REF. No.	Letter & Form No. 035
	DATE	08-05-2018
	DATE OF SAMPLE RECEIPT	DATE OF TESTING
	11-05-2018	22-05-2018 to 26-05-2018
SAMPLE DESCRIPTION FRP sample, Unsaturated Polyester Grade: UP1 Make: Integra	SAMPLE IDENTIFICATION ERDA Sample Code No.: ERDA-00256842	
Sr. TEST DETAILS No.	TEST SPECIFICATION	
1. Water absorption	} IS 10192:1982 (Reaffirmed 2005) and as per customer's requirement.	
2. Tensile strength		
3. Cross breaking strength		
4. Compressive strength		
5. Shear strength	IS 4248:1967	
6. Impact strength-Izod	IS 1998:1962 (Reaffirmed 2003) and as per customer's requirement.	
REMARKS: (1) Sample conforms to the requirements as per test specification for test sr. nos. 1 to 4. (2) Requirement is not mentioned in the test specification for test sr. nos. 5 & 6. (3) Photograph of sample is on sheet 2 of 2.		
 PREPARED BY	 CHECKED BY	 (S.M.Falnikar) APPROVED BY
Note:	1 This report relates only to the particular sample received for testing in good condition at ERDA, Vadodara. 2 This report cannot be reproduced in part under any circumstances. 3 Publication of this report requires prior permission in writing from Director, ERDA. 4 Only the tests asked for by the customer have been carried out. 5 In case of any dispute, Vadodara will be the exclusive jurisdiction & shall be construed as where the cause has raised.	
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TEST REPORT No. RP-1819-007283		DATE 28-05-2018		SHEET 2 OF 2
Sr. No.	Particular of Tests & Cl. No.	Requirement as per specification	Obtained value	Remarks
1.	Water absorption, % (after 24 hrs immersion in water, corrected to 20°C) Cl. No. 4.4, Table 3(ii) Average measured thickness: 3.75mm	Max. 0.80	0.77	Conforms
2.	Tensile strength, N/mm ² Cl. No. 4.4, Table 3(iii)	Min. 120	384.2	Conforms
3.	Cross breaking strength, N/mm ² Cl. No. 4.4, Table 3(iv)	Min. 160	330.6	Conforms
4.	Compressive strength, Flatwise, kN Proof test for 1 minute @200 N/mm ² Cl. No. 4.4, Table 3(v)	Max. 18.0 Sample shall not crack, split or tendency to delaminate.	Withstood, No crack, split or delamination observed.	Conforms
5.	Shear strength, N/mm ² Cl. No. 4.11	---	143.2	---
6.	Impact strength-Izod, kJ/m ² Cl. No. 9 Edgewise, Notched	---	123.7	---

A photograph showing several rectangular test samples of varying sizes and orientations, some with labels, placed on a wooden surface.

PREPARED BY

A circular blue seal with the text 'Electrical & Insulating Materials Division' around the perimeter and 'ERDA Vadodara' in the center.

CHECKED BY

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