

FRP Technical Datasheet

Specification :	FRP Sheet as per IS 10192 - 1982
Description of item :	Insulators to support Al / Cu busbars
Resin system :	Polyester Resin
Colour :	As per customer requirement
Visual Appearance :	GOOD - Free From Scratches and Burrs
Standard followed :	IS 10192 - 1998 Grade UP-2
Description of Standard :	Manufactured Using a Combination Of Polyester Resin And Fiber Glass in Mat Fabric under Heat or cold curing

PHYSICAL TEST

		Specified Values	Obsorbed Values	Remarks	
Specific Gravity		1.6 Min	1.88	OK	
Water Absorption		0.60 Max	0.1	OK	

MECHNICAL TESTS

		Specified Values	Obsorbed Values	Remarks	
Tensie Strength		180 N/mm ²	196 N/mm ²	OK	
Cross Breaking Strength		200 N/mm ²	232 N/mm ²	OK	
Impact Strength		40 Kj/m ²	68 Kj/m ²	OK	
Compression Strength		250 N/mm ²	286 N/mm ²	OK	
Shear Strength		60 N/mm ²	76 N/mm ²	OK	
Splitting Strength		0.90 KN	1.14 KN	OK	

ELECTRICAL TESTS

		Specified Values	Obsorbed Values	Remarks	
Electrical strength		8 Kv/mm	Passed	OK	
Insulation Resistance		500 M Ohms	> 1000 M Ohms	OK	
Dissipation Factor @50Hz		0.04 Max	0.02	OK	
Permitivity@50Hz		4 to 6	4.84	OK	
Comparative Tracking Index		300 Volts	>600 Volts	OK	
Glow wire		960 C	960 C	OK	

PHYSICAL TEST

		Specified Values	Obsorbed Values	Remarks	
Martens Heat Distortion		120 C	> 135 C	OK	
emprature Min Thickness >4mm					