

Laboratory	Analytical Laboratory, Fine Finish Organics Pvt. Ltd., Plot No. 76/29, New Chemical Zone, M.I.D.C., Taloja		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Mechanical Testing	Issue Date	29.09.2013
Certificate Number	T-2069	Valid Until	28.09.2015
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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
I. PLASTICS & PLASTIC PRODUCTS				
a.	RESINS, PLASTICS, POLYMERS	Tensile Strength	ASTM D 638-10 ISO 527-1&4-12	1 MPa to 2500 MPa
		% Elongation	ASTM D 638-10 ISO 527-1&4-12	0.1% to 300%
		E-Modulus	ASTM D 638-10 ISO 527-1&4-12	5 MPa to 40000 MPa
		Density/ Specific Gravity	ASTM D 792-08	0.4 to 8.0 g/cc
		Water Absorption	ASTM D 570-10	0.01% to 10%
		Heat Deflection Temperature	ISO 75-Part 1 & 2-04	35 °C to 250 °C
		Volume Shrinkage	ISO 3521-03	0.5 % to 15%
b.	REINFORCED & UNREINFORCED PLASTICS	Flexural Strength	ASTM D 790-10 ISO 178-10	1 MPa to 2500 MPa
		Flexural Modulus	ASTM D 790-10 ISO 178-10	5 MPa to 60000 MPa
		Flexural Strain	ASTM D 790-10 ISO 178-10	0.5% to 30%
		Water Absorption	ASTM D 5229-10	0.01% to 10%
		Barcol Hardness	ASTM D 2583-07	10 to 85 Barcol

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c.	POLYMER MATRIX COMPOSITE MATERIALS	Ultimate Tensile Strength	ASTM D 3039/ ASTM D 3039M-08	10 MPa to 3500 MPa
		% Elongation	ASTM D 3039/ ASTM D 3039M-08	0.1% to 50%
		Tensile Modulus	ASTM D 3039/ ASTM D 3039M-08	50 MPa to 70000 MPa
		Short Beam Strength	ASTM D 2344-06	2 MPa to 250 MPa
		Mid Span Deflection	ASTM D 790-10	1mm to 100 mm
		Compressive Strength	ASTM D 3410/ ASTM D 3410 M-08	10 MPa to 2500 Mpa
		Compressive Modules	ASTM D 3410/ ASTM D 3410 M-08	50 MPa to 60000 Mpa
		Constituent Content	ASTM D 3171-09/ EN 2564-98	5% to 90%
	Void Content	ASTM D 3171-09/ EN 2564-98	0.1% to 20%	
II. MISCELLANEOUS PRODUCTS				
a.	FRP BONDING ADHESIVES	Lap Shear Strength	ASTM D 5868-08	1 MPa to 100 MPa
b.	RIGID TO RIGID BONDING ADHESIVES	Lap Shear Strength	ISO: 4587-2003	1 MPa to 100 MPa

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c.	ADHESIVES-FLEXIBLE TO FLEXIBLE BONDED ASSEMBLIED	Peel Strength	ISO:11339: 2010	0.5N/mm to 100 N/mm
d.	IMPREGNATING AGENTS	Bond Strength	IEC 61033-2004	5 N to 1000 N

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