

Dura - Core 1000B (Balsa Core)

5/19/2014

	<u>Test Method</u>	<u>Units</u>	<u>Performance Value</u>
Flame Resistance Properties			
Radiant Panel - Flame Spread	E162	Flame Spread	32.95
Smoke Density @ 4.0 Minutes, Flaming	E-662	Optical Density	12.7
Smoke Density @ 1.5 Minutes, Flaming	E-662	Optical Density	1
Smoke Density @ 4.0 Min, Non- Flaming	E-662	Optical Density	3.4
Smoke Density @ 1.5 Min, Non- Flaming	E-662	Optical Density	0.4
Smoke and Toxicity Data			
Hydrogen Fluoride	BSS7239	PPM	0
Hydrogen Chloride	BSS7239	PPM	0.8
Hydrogen Cyanide	BSS7239	PPM	1.5
Sulfur Dioxide	BSS7239	PPM	0
Oxides of Nitrogen	BSS7239	PPM	40
Nitrogen Dioxide	BSS7239	PPM	1.0
Carbon Monoxide	BSS7239	PPM	100
Mechanical Properties - Composite			
Tensile Strength - Flatwise	C-297	PSI	684
Flexural Properties - Peak Load	C-393	lbs.	1,184
Compressive Strength (Flatwise)	C-365	PSI	1,141
Shear Strength - Flatwise	C-273	PSI	333
Shear Modulus	C-273	PSI	25,433
Specific Gravity	D-792	g/cm ³	0.4590
Barcol Hardness	D-2583	Barcol Scale	57
Water Absorption - Composite	D-570	%/wgt.	N/A

Mechanical Properties - Core			
Water Absorption - Core Only	D-2842	lb/sq. ft.	N/A
Foam Core Density	D-1622	lb/ft ³	7.7
Foam Core Compressive Strength	D-1621	PSI	1,878
Load and Impact Properties - New Jersey Transit			
Static Load - Average Loading (crushing load)	053 - BTR - 1271	Inches / Deflection Under Load	0.056" - Pass
Static Load - Maximum Loading (200 lb/ft ²)	053 - BTR - 1281	Inches / Permanent Deflection	0.005" - Pass
Small Area Static Load Test (300 lbs over 1" x 3")	053 - BTR - 1291	Inches / Deflection Under Load	0.113" - Pass
Small Object Impact Test (16 lbs bowling ball @ 60")	053 - BTR - 1311	Inches / Permanent Deflection	0.039" - Pass
Large Object Impact Test (150 lbs over 3" x 8" @ 12")	053 - BTR - 1321	Inches / Permanent Deflection	0.024" - Pass
Insert Torque, Load and Impact Properties - SEPTA			
Indentation Resistance	SEPTA S-3837 3.3.5a	LBF	400#
Deflection Test - Average Load	SEPTA S-3837 3.3.5b	60# load	Pass
Static Load Test - Max Loading	SEPTA S-3837 3.3.5c	200# sq/ft	Pass
Insert Torque Test	SEPTA S-3837 3.3.5d	1/4"-20 @75 lb-in and 5/8"-11 @ 100lb-ft	Pass
Insert Tensile Test	SEPTA S-3837 3.3.5e	1/4"-20 @ 250 lbs and 5/8"-11 @ 500 lbs	Pass
Insert Shear Strength Test	SEPTA S-3837 3.3.5f	1/4" - 20 shear load of 450 lbs	Pass
Small Object Impact Load Test	SEPTA S-3837 3.3.5g	16# drop @ 60"	Pass
Large Object Impact Test	SEPTA S-3837 3.3.5i	150# @ 12"	Pass
Small Area Static Load Test	SEPTA S-3837 3.3.5j	300 lb load	Pass
Rolling Load Test	SEPTA S-3837 3.3.5l	200# on 2 Wheels Rolling	Pass
<p>Unless otherwise indicated, all properties published are based on test performed on standard ASTM test samples and according to ASTM test methods. Values shown are for test samples made from production materials and they are believed to be conservative. No warranty is to be construed, however, in fabricated or molded form, parts may vary considerably from this standard test data. Where specific or unusual applications arise, test should be made on actual parts, and test procedures agreed upon between Haysite Reinforced Plastics and the customer.</p>			