



DEC Architectural Composites

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SUMMARY OF PHYSICAL PROPERTIES DEC MATERIALS

Property & Reference	Unit of Measure	FRP	Cornicestone	Woodgrain FRP	GRG	Magdaleno Stone	Woodgrain GRG	GFRCnext	Echo-Stone	Woodgrain GFRCnext
Barcol Hardness ASTM-D-2583	Points	N/A	N/A	N/A	105	105	105	43	43	43
Compression ASTM-C-39	Pounds Per Square Inch	27000*	27000*	27000*	5,800	5,800	5,800	4,000	4,000	4,000
Coefficient of Thermal Expan.	Degrees Fahrenheit	23.2 x 10 ⁶	23.2 x 10 ⁶	23.2 x 10 ⁶	5.4 x 10 ⁶	5.4 x 10 ⁶	5.4 x 10 ⁶	11.0 x 10 ⁶	11.0 x 10 ⁶	11.0 x 10 ⁶
Density ASTM-D-792	Pounds Per Cubic Foot	110.00	110.00	110.00	110.00	110.00	110.00	105.00	105.00	105.00
Flammability ASTM-E-84	Flame Spread Smoke Develop.	25 50	25 50	25 50	25 50	25 50	25 50	25 50	25 50	25 50
Flexural Strength ASTM-D-790	Pounds Per Square Inch	22,000	22,000	22,000	4,192	4,192	4,192	3,050	3,050	3,050
Impact Strength ASTM-D-256	Foot Pounds Per Square Inch	N/A	N/A	N/A	12.90	12.90	12.90	190.00	190.00	190.00
Tensile Strength ASTM-D-638	Pounds Per Square Inch	11,500	11,500	11,500	1,340	1,340	1,340	3,500	3,500	3,500
Unit Weight	Pounds Per Square Foot (@1/2")	1.5 - 2	1.5 - 2	1.5 - 2	2	2 - 3	2	3 - 5	3 - 5	3 - 5

Composition of Composites

Echo-Stone	Blend of cementitious minerals, aggregates, polymers & glass fibers
FRP	Glass Fiber Reinforced Acrylic Resin
GRG	Glass Fiber Reinforced Gypsum
GFRC	Glass Fiber Reinforced Concrete

Note

The above stated physical properties, and ASTM's that may be used are an average value of materials as produced by DEC Architectural Composites. These may be subject to change in the future due to the introduction of different materials and volumes.

* Value reflects ASTM-D-695 for FRP only.