

Epoxy Products L.L.C.

500 East 16th Street

Mountain Home, AR 72653

(870) 425-4321 • (800) 424-5254 • (870) 425-0820 Fax



SUMMARY REPORT

Physical Property Testing on Black Epoxy Counter Top Material

Standard black epoxy material manufactured on December 12, 2007 was cut and fabricated into test specimens to meet the requirements of ten ASTM test procedures. Testing by independent laboratories was completed in January and April, 2008 as follows:

SGS US Testing Company, Inc.

291 Fairfield Avenue

Fairfield, NJ 07004

Test Report Number: 177:009589-01& -02 and 177:012023

Test Report Date: January 11 & 28, 2008 and April 28, 2008

ASTM D638-03	Tensile Strength
ASTM D695-02	Compressive Strength
ASTM D790-03	Flexural Strength
ASTM D790-03	Flexural Modulus
ASTM D648-07	Heat Deflection Temperature
ASTM D792-00	Specific Gravity
ASTM D570-98	Water Absorption
ASTM D785-03	Rockwell Hardness
ASTM D635-06	Fire Resistance

IMR Test Labs

131 Woodsedge Drive

Lansing Business & Technology Park

Lansing, NY 14882

IMR Report Number: 200712054

Test Report Date: January 3, 2008

ASTM E831-06	Coefficient of Thermal Expansion
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Summary of Test Results

A. Tensile Strength, ASTM D638-03

Test Specimen Dimensions:	9" X 0.75" X 0.5" with dog bone shape
Specimen Conditioning:	48 Hours Minimum
Lab Environment:	Temp of 23°C and RH of 50%
Crosshead Speed:	0.2 IN/MIN
Number of Specimens Tested:	11
Average Tensile Strength:	11,151 PSI
Standard Deviation:	428

B. Compressive Strength, ASTM D695-02

Test Specimen Dimensions:	0.5" X 0.5" X 2"
Specimen Conditioning:	48 Hours Minimum
Lab Environment:	Temp of 23°C and RH of 50%
Crosshead Speed:	0.05 IN/MIN
Number of Specimens Tested:	16
Average Compressive Strength:	36,102 PSI
Standard Deviation:	1,596

C. Flexural Strength, ASTM D790-03

Test Specimen Dimensions:	10" X 0.5" X 0.5"
Specimen Conditioning:	48 Hours Minimum
Lab Environment:	Temp of 23°C and RH of 50%
Span:	8.0"
Crosshead Speed:	0.21 IN/MIN
Number of Specimens Tested:	13
Average Flexural Strength:	17,171 PSI
Standard Deviation:	3,353

D. Flexural Modulus, ASTM D790-03

Test Specimen Dimensions:	10" X 0.5" X 0.5"
Specimen Conditioning:	48 Hours Minimum
Lab Environment:	Temp of 23°C and RH of 50%
Span:	8.0"
Crosshead Speed:	0.21 IN/MIN
Number of Specimens Tested:	13
Average Flexural Modulus:	2,129,181 PSI (2.13 X 10⁶ PSI)

E. Heat Deflection Temperature, ASTM D648-07, Method B, 264 PSI Load

Test Specimen Dimensions:	5" X 0.5" X 0.5"
Specimen Conditioning:	48 Hours Minimum
Lab Environment:	Temp of 23°C and RH of 50%
Number of Specimens Tested:	4
Average Heat Deflection Temp:	342° F

Summary of Test Results Continued

F. Specific Gravity, ASTM D792-00

Test Specimen Dimensions:	1" X 2" X 0.5"
Specimen Conditioning:	48 Hours Minimum
Lab Environment:	Temp of 23°C and RH of 50%
Number of Specimens Tested:	7
Average Specific Gravity:	2.055 G/CC

G. Water Absorption, ASTM D570-98

Test Specimen Dimensions:	1" X 3" X 0.5"
Specimen Conditioning:	48 Hours Minimum
Lab Environment:	Temp of 23°C and RH of 50%
Number of Specimens Tested:	6
Average Water Absorption:	+0.019%

H. Rockwell Hardness (M Scale), ASTM D785-03

Test Specimen Dimensions:	4" X 4" X 0.5"
Specimen Conditioning:	48 Hours Minimum
Lab Environment:	Temp of 23°C and RH of 50%
Number of Specimens Tested:	5
Average Rockwell Hardness:	109

I. Fire Resistance, ASTM D636-06

Test Specimen Dimensions:	0.5" X 0.5" X 5"
Specimen Conditioning:	48 Hours Minimum
Lab Environment:	Temp of 23°C and RH of 50%
Number of Specimens Tested:	10
Fire Resistance Rating:	No burn rate (UBC-26-7 classification of CC1)

J. Coefficient of Thermal Expansion (75 – 200 °F), ASTM E831-06

Test Specimen Dimensions:	0.25" X 0.25" X 0.5"
Number of Specimens Tested:	5
Average CTE:	0.0000168 IN/IN/°F (1.68 X 10⁻⁵ IN/IN/°F)