



CHEMICAL & CONSTRUCTION  
MATERIALS TECHNOLOGY  
LABORATORY  
TECHNOLOGICAL EDUCATIONAL  
INSTITUTE OF THESSALY



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& Mechanical Behavior of Materials  
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EN ISO 9001:2008  
No : 14/1851

## Test Reports Results

Date of Issue: 21/03/2016

Product: **Aluminium Honeycomb Panel**

Costumer: **Metallock**  
KOUTSOURAKIS E. ILIAS  
33rd klm National Road Athens-Lamias  
Polydendri Attikis – Greece  
Postcode 190 11

Property	Value	Test Standard
Thermal Conductivity $\lambda$	1,379 (W/m*K)	ASTM E1530 - 11
Thermal Resistance R	0,014 (m <sup>2</sup> *K/W)	ASTM E1530 - 11
Modulus of Elasticity	35288 (N/mm <sup>2</sup> )	ISO 6892-1:2009
Interlaminar Fracture Toughness G <sub>ic</sub>	3,26 (KJ/m <sup>2</sup> )	ASTM D 5528
Tensile Strength	159,31 (N/mm <sup>2</sup> )	ISO 6892-1:2009
Moment of Inertia J	26,9 (cm <sup>4</sup> /m)	DIN 53293
Section Modulus W	25,3 (cm <sup>3</sup> /m)	DIN 53293
Rigidity EJ	94924 (KNcm <sup>2</sup> /m)	DIN 53293
Shear Ultimate Strength	0,3180 (MPa)	ASTM C393/C393M-11

The reported results refer only to the material type tested, according to the relevant test reports. The reproduction of this document is only permitted in full extension. Documents without signature are not valid.

Laboratory Director  
ΕΡΓΑΣΤΗΡΙΟ  
ΧΗΜΙΚΗΣ ΤΕΧΝΟΛΟΓΙΑΣ  
ΕΠΙΣΤΗΜΗΣ & ΜΗΧΑΝΙΚΗΣ  
ΣΥΜΠΕΡΙΦΟΡΑΣ ΥΛΙΚΩΝ  
ΤΕΧΝΟΛΟΓΙΚΟ ΕΚΠΑΙΔΕΥΤΙΚΟ ΙΔΡΥΜΑ  
ΘΕΣΣΑΛΙΑΣ

Dr. George Papapolymerou

EXACT TRANSLATION FROM THE GRREK LANGUAGE