

EPOXY TOOLING BOARD HIGH TEMPERATURE RESISTANCE

DESCRIPTION

Master models for epoxy prepregs or heat curing composite tools or parts, short run vacuum forming moulds.

PROPERTIES

- High dimensional stability
- Easy machinable

- Low specific gravity
- High temperature resistance

PHYSICAL PROPERTIES				
Composition		Ероху		
Colour		light blue		
Specific gravity of cured product at 23°C	ISO 2781 : 1996	0.70		

MECHANICAL PROPERTIES at 23°C					
Hardness	ISO 868 :2003	Shore D1	75		
Flexural modulus	ISO 178 :2001	MPa	2,500		
Flexural strength	ISO 178 :2001	MPa	30		
Compressive strength at yield	ISO 604 :2002	MPa	50		
Glass transition temperature	ISO 11359 : 2002	°C	115		
Coefficient of thermal expansion (CTE) (10°C to 100°C)	ISO 11359 : 1999	10 ⁻⁶ K ⁻¹	35 - 45		

Following these results, LAB 975 can be used up to 125 °C maximum temperature for curing prepegs in autoclave under 4 bars pressure.

ASSEMBLY / FINISH

Axson tooling boards can be bonded with H 8973/GC 15 (about $600g/m^2$).

HANDLING PRECAUTIONS

Normal health and safety precautions should be observed when handling these products :

- Ensure good ventilation,
- Wear gloves, safety glasses and waterproof clothes,
- Do not smoke when machining.

For further information, please consult the product safety data sheet.

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AXSON TECHNOLOGIES Head Office France +33 1 34 40 34 60 <u>axson@axson.fr</u> axson.fr GERMANY +49 60 74 40 71 10 verkauf@axson.de axson.de ITALY +39 02 96 70 23 36 axson@axson.it axson.it

axson@axson.es axson.es U.K. +44 1 638 66 00 62 sales@axson.co.uk axson.com

SPAIN & PORTUGAL +34 93 225 16 20 SLOVAKIA +421 37 642 25 26 office@axson-ce.sk axson-ce.sk NORTH AMERICA +1 517 663 8191 info@axsontech.us mexico +52 55 52 64 49 22 axson@prodigy.net.mx axson.com.mx JAPAN +81 564 26 25 91 sales@axson.jp axson.jp CHINA +86 21 58 68 30 37 china@axson.cn axson.cn INDIA +91 20 25560710 info.india@axson.com axson.com

MIDDLE EAST +971 7 2432227 info.middleeast@axson.com axson.com





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MACHINING PARAMETERS				
	Cut speed (Vc in m/min)	Feed per tooth (fz in mm/revolution)		
Rough shape	100 to 400	0.35		
Finish	400 to 800	0.05 à 0.15		

n = ((1000 X Vc)) / (PIXDc)	
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Vf = n X fz X Z

- Vc: Cutting speed in m/min
- Dc: cutting diameter in mm
- n: Spindle speed
- **STORAGE CONDITIONS**

The slabs must be stored in a dry place provided

DIMENSIONS

1.500 x 500 x 50 mm 1.500 x 500 x 100 mm 1.500 x 500 x 75 mm Other larger dimensions possible in Mass Casting MC 973 (please contact us).

GUARANTEE

The information of our technical data sheet are based on our present knowledge and the result of tests conducted under precise conditions. It is the responsibility of the user to determine the suitability of AXSON products, under their own conditions before commencing with the proposed application. AXSON refuse any guarantee about the compatibility of a product with any particular application. AXSON disclaim all responsibility for damage from any incident which results from the use of these products. The guarantee conditions are regulated by our general sale conditions.

- fz: Feed per tooth in mm/revolution
- Z: number of teeth
- Vf: feed speed

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AXSON TECHNOLOGIES Head Office France +33 1 34 40 34 60 axson@axson.fr

GERMANY +49 60 74 40 71 10 verkauf@axson.de axson.de ITALY +39 02 96 70 23 36

axson@axson.it axson.it

axson@axson.es axson.es

U.K. +44 1 638 66 00 62 sales@axson.co.uk axson.com

SPAIN & PORTUGAL +34 93 225 16 20

SLOVAKIA +421 37 642 25 26 office@axson-ce.sk axson-ce.sk NORTH AMERICA +1 517 663 8191 info@axsontech.us axsontech.us MEXICO +52 55 52 64 49 22 axson@prodigy.net.mx axson.com.mx

JAPAN +81 564 26 25 91 sales@axson.jp axson.jp CHINA +86 21 58 68 30 37 <u>china@axson.cn</u> axson.cn INDIA +91 20 25560710 info.india@axson.com axson.com

MIDDLE EAST +971 7 2432227 info.middleeast@axson.com axson.com