PEBOARD 70

Polyester modelling board

Product description :

PEBORAD 70 is a low-cost polyester modelling board for master patterns such as automotive models and shoe lasts. It can also be used for vacuum-forming tools.

Key features :

• High dimensional stability

• Good toughness and edge stability

• Good machinability

• High surface quality

• Low density

Physical properties :

Product	PEBOARD 70
Colour	Reddish brown
Density	0.68-0.72 g/cm3

Mechanical properties :

Test item	Test method	PEBOARD 70
Hardness	ISO 868 : 2003	Shore D 63
Heat resistance (HDT)	DIN EN ISO 75B	65°C
Flexural strength	EN ISO 178	45 MPa
Compressive strength	EN ISO 604	45 MPa
Tensile strength	EN ISO 527-1	22 MPa
Coefficient of thermal expansion	EN ISO 113590-2	65* 10-6 K-1

Processing guidelines :

Bonding boards :

1. Cut, prepare and trial-assemble the boards according to the drawing.

08-2017PEBOARD70 | Source page 1/2

2. Sand the bonding surfaces with 320-grit paper.

3. Remove sanding dust with compressed air, then clean residual contaminants from the bonding surfaces with a cleaning solvent such as acetone.

4. Allow the solvent to evaporate before bonding.

5. Spread approximately 600 grams of epoxy adhesive evenly over both bonding surfaces with a notched spreader.

6. Join the boards and apply even pressure until adhesive squeezes out. Remove excess adhesive and check that the bond line is uniform and no thicker than 1mm.

7. Hold the boards together under even pressure using clamps or weights placed on top.

8. Allow sufficient time for the adhesive to cure before further machining.

Backing support :

Provide adequate backing support to prevent gravity-induced distortion. For large tools, a steel support frame is recommended to reduce deflection and facilitate handling. Bond the backing or frame to the board using a recommended adhesive. Take particular care during heating and cooling: differences in thermal expansion between materials may cause the board to warp or crack.

Packaging sizes :

1500*500*50mm

1500*500*75mm

1500*500*100mm

Safety precautions :

Avoid skin contact during machining. Wear protective clothing, a mask and protective gloves as necessary, and work in a well-ventilated area. Refer to the material safety data sheet for further information.

Notes :

All data above were measured under specified conditions. As actual processing methods and other factors may affect performance, customers should conduct the necessary tests before use to confirm suitability for their application. We guarantee that our products meet our quality specifications.

08-2017PEBOARD70 | Source page 2/2