

DESCRIPTION

Our Tooling Boards are manufactured using Polyurethane and are used in making models, patterns and molds. Lower density PU boards can be hand processed whereas the denser ones require CNC machines.

Product range consists of 10 different models, varying in density between 600 - 1500 kg/m³. These boards come in 18 different dimensions and the maximum size is 2000x1000 mm whereas thicknesses peak at 200 mm. These blocks can be bonded together to achieve even larger size

PROPERTIES

- Fine surface structure
- Low coefficient of thermal expansion
- Good compressive and flexural strength
- Good compressive and flexural strength

APPLICATION

- Master models
- Cubing models
- Patterns

PHYSICAL PROPERTIES			
Color			Beige
Density at 23°C	ISO 854	Kg/m ³	580-620
MECHANICAL PROPERTIES at 23°C			
Hardness	ISO 868	Shore D1	74-78
Flexural strength	ISO 178	MPa	15-20
Compressive strength	ISO 178	MPa	15-20
Heat distortion temperature	ISO 75B	°C	70-75
Coefficient of thermal expansion (CTE)	ISO 11359-2	10 ⁻⁶ .°K ⁻¹	50-55
Standard sheet size			
1500x500x75mm	750x500x50mm		
1500x500x100mm	750x500x75mm		
750x500x100mm			

STORAGE CONDITIONS

Store flat in a dry place. Allow time for material to come to ambient temperature prior to bonding or machining.

HANDLING PRECAUTIONS

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

- Ensure good ventilation to prevent dust or chip accumulation
- Wear gloves, and safety glasses.
- Do not smoke when machining.

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PHYSICAL PROPERTIES			
Color			White
Density at 23°C	ISO 854	Kg/m ³	680-720
MECHANICAL PROPERTIES at 23°C			
Hardness	ISO 868	Shore D1	77-81
Flexural strength	ISO 178	MPa	25-30
Compressive strength	ISO 178	MPa	20-25
Heat distortion temperature	ISO 75B	°C	75-80
Coefficient of thermal expansion (CTE)	ISO 11359-2	10 ⁻⁶ .°K ⁻¹	50-55
Standard sheet size			
1500x500x50mm	1500x500x150mm		
1500x500x75mm	1500x500x200mm		
1500x500x100mm			

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PHYSICAL PROPERTIES			
Color			RUST
Density at 23°C	ISO 854	Kg/m ³	1200-1240
MECHANICAL PROPERTIES at 23°C			
Hardness	ISO 868	Shore D1	88-93
Flexural strength	ISO 178	MPa	70-80
Compressive strength	ISO 178	MPa	60-70
Heat distortion temperature	ISO 75B	°C	80-85
Coefficient of thermal expansion (CTE)	ISO 11359-2	10 ⁻⁶ .°K ⁻¹	55-60
Standard sheet size			
1500x500x50mm	1500x500x150mm		
1500x500x75mm	1500x500x200mm		
1500x500x100mm			

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