

CATBME-800 Epoxy Tooling Board

APPLICATIONS

MASTER MODELS
 CUBING MODELS
 PATTERNS
 MOULD FOR AUTOCLAVE USE

PROPERTIES

FINE SURFACE STRUCTURE
 Made from Modified Epoxy resin
 LOW COEFFICIENT OF THERMAL EXPANSION
 GOOD DIMENSIONAL STABILITY
 GOOD COMPRESSIVE AND FLEXURAL STRENGTH

TYPICAL PROPERTIES	
COLOUR	Iron Rust
DENSITY (ISO 854)	830-850 kg/m ³
HARDNESS (ISO 868)	75-80 Shore D
GLASS TRANSITION TEMPERATURE (ASTM E1356)	140 °C
HEAT DISTORTION TEMPERATURE (ISO 75B)	125 °C
COEFFICIENT OF THERMAL EXPANSION (ISO 11359-2)	30-40 10 ⁻⁶ K ⁻¹
COMPRESSIVE STRENGTH (ISO 178)	50-60 MPa
FLEXURAL STRENGTH (ISO 178)	35-40 MPa
Standard Sheet sizes are	
1500 x 500 x 50 mm	
1500 x 500 x 75 mm	
1500 x 500 x 100 mm	

CATBPU-600 Polyurethane Tooling Board

APPLICATIONS

MASTER MODELS
CUBING MODELS
PATTERNS

PROPERTIES

FINE SURFACE STRUCTURE
LOW COEFFICIENT OF THERMAL EXPANSION
GOOD DIMENSIONAL STABILITY
GOOD COMPRESSIVE AND FLEXURAL STRENGTH

TYPICAL PROPERTIES	
COLOUR	BEIGE
DENSITY (ISO 854)	580-620kg/m ³
HARDNESS (ISO 868)	74-78Shore D
HEAT DISTORTION TEMPERATURE (ISO 75 B)	70-75 oC
COEFFICIENT OF THERMAL EXPANSION (ISO 11359-2)	50-55 10 ⁻⁶ K ⁻¹
COMPRESSIVE STRENGTH (ISO 178)	15-20 Mpa
FLEXURAL STRENGTH (ISO 178)	15-20 MPa
Standard Sheet sizes are	
1500 x 500 x 75 mm	
1500 x 500 x 100 mm	
750 x 500 x 50 mm	
750 x 500 x 75 mm	
750 x 500 x 100 mm	

CATBPU-700 Polyurethane Tooling Board

APPLICATIONS

MASTER MODELS
CUBING MODELS
PATTERNS

PROPERTIES

FINE SURFACE STRUCTURE
LOW COEFFICIENT OF THERMAL EXPANSION
GOOD DIMENSIONAL STABILITY
GOOD COMPRESSIVE AND FLEXURAL STRENGTH

TYPICAL PROPERTIES (BASED ON CATBME-700)	
COLOUR	WHITE
DENSITY (ISO 854)	680-720kg/m ³
HARDNESS (ISO 868)	77-81 Shore D
HEAT DISTORTION TEMPERATURE (ISO 75 B)	75-80 oC
COEFFICIENT OF THERMAL EXPANSION (ISO 11359-2)	50-55 10-6K-1
COMPRESSIVE STRENGTH (ISO 178)	20-25 Mpa
FLEXURAL STRENGTH (ISO 178)	25-30MPa
Standard Sheet sizes are	
1500 x 500 x 50 mm	
1500 x 500 x 75 mm	
1500 x 500 x 100 mm	
1500 x 500 x 150 mm	
1500 x 500 x 200 mm	

CATBPU-1200 Polyurethane Tooling Board

APPLICATIONS

MASTER MODELS
 CUBING MODELS
 PATTERNS

PROPERTIES

FINE SURFACE STRUCTURE
 LOW COEFFICIENT OF THERMAL EXPANSION
 GOOD DIMENSIONAL STABILITY
 GOOD COMPRESSIVE AND FLEXURAL STRENGTH

TYPICAL PROPERTIES	
COLOUR	RUST
DENSITY (ISO 854)	1200-1240kg/m ³
HARDNESS (ISO 868)	88-93 Shore D
HEAT DISTORTION TEMPERATURE (ISO 75 B)	80-85 °C
COEFFICIENT OF THERMAL EXPANSION (ISO 11359-2)	55-60 10 ⁻⁶ K ⁻¹
COMPRESSIVE STRENGTH (ISO 178)	60-70 MPa
FLEXURAL STRENGTH (ISO 178)	70-80 MPa
Standard Sheet sizes are	
1500 x 500 x 50 mm	
1500 x 500 x 75 mm	
1500 x 500 x 100 mm	
1500 x 500 x 150 mm	
1500 x 500 x 200 mm	