

Close Contour Casting

Cast Polyurethane, density <math><1.0 \text{ g/cm}^3</math> (<math><62 \text{ lb/ft}^3</math>)

Key Properties

- Fine surface structure
- Very easily machined
- Similar quality to RAKU® TOOL Modeling Boards without bonding lines

Applications

- Master models
- Cubing models
- Data control models

Advantages of Close Contour Casting

- Quicker machining, less tool wear and less wastage through close contour shape
- Less manual finishing required as the surface is seamless, smooth and very dense.
- No handling of liquid chemistry, concentration on milling technology
- Good dimensional stability as the material exhibits little stresses and is isotropic like board material
- High quality standard

Mechanical Properties

		CC-6010	
Color	visual		Brown
Density	ASTM D-792	g/cm ³ (lb/ft ³)	ca. 0.80 (ca. 50)
Shore hardness D	ASTM D-2240		65 – 70
Coefficient of thermal expansion	ASTM D-3386	10 ⁻⁶ K ⁻¹ (in/in/°F x 10 ⁻⁶)	65 – 70 (36 – 39)
Deflection temperature, HDT	ASTM D-648	°C (°F)	75 – 80 (167 – 176)
Compressive strength	ASTM D-695	MPa (psi)	35 – 40 (5,100 – 5,800)
Compressive modulus	ASTM D-695	MPa (psi)	1300 – 1600 (189,000 – 232,000)

Processing

The product should have a temperature of 20°C – 25°C (68-77°F) during processing.

Storage

The material should be stored flat and in a dry place. Temperature variations should be avoided during storage and transportation.

RAKU® TOOL CC-6010

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Cast Polyurethane, density $<1.0 \text{ g/cm}^3$ ($<62 \text{ lb/ft}^3$)



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Handling Precautions

Good workplace ventilation is to be ensured during processing. At the same time, the employer's liability insurance association's industrial hygiene safety regulations regarding the handling of reaction resins and their hardeners are to be observed. Please take heed of the appropriate safety data sheets.
