

CC-6506 & CB-6506

Close Contour Casting & Close Close Contour Block

Filled, cast polyurethane

Key Properties

- Very dense structure
- Polishable
- High heat deflection temperature
- High compressive strength & modulus
- Good chemical resistance

Applications

- Casting molds for pressure casting (ceramics)
- Sheet metal forming tools
- Thermoforming tools
- Lay-up tools for low temperature prepregs
- RTM molds

Advantages of Close Contour Casting

- Close Contour Casting is supplied as a three dimensional shape / casting which is already a close contour of the final shape.
- Close Contour Block is supplied as a customized size of a rectangular, unmachined block.
- Quicker machining, less tool wear and less waste through close contour shape.
- Less finishing required as the surface is seamless, smooth and very dense.
- Good dimensional stability, minimal internal stress as the material is isotropic like board material.
- High quality standard.

Mechanical Properties

		Unit	CC-6506 / CB-6506
Color		visual	dark gray
Density	ISO 1183	g/cm ³	ca. 1.90
Hardness	ISO 868	Shore D	90 - 95
Coefficient of thermal expansion	ISO 11359	10 ⁻⁶ K ⁻¹	35 - 45
Deflection temperature, HDT	ISO 75	°C	110 - 120
Compressive strength	ISO 604	MPa	120 - 130
Compressive modulus	ISO 604	MPa	12,700 - 13,200

Processing

The material should be processed at a temperature of 20°C – 25°C.

Storage

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



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.