



obomodulan® 652 HT

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obomodulan® 652 HT Technical Data Sheet

Description

- **obomodulan® 652 HT** is a polyurethane based material with a higher working temperature of max. 120 °C
- The material is suitable for thermoplastic deep drawing tools, caused by the high temperature resistance

Physical and Technical Data*

Categories	Measured Average Values	
Density kg/m ³ (approx.)	650	
Compressive Strength MPa (DIN EN ISO 604)	27	
Flexural Strength MPa (DIN EN ISO 178)	28	
Shore D (DIN 53505)	58 -67	
Deflection Temperature ISO 75	120° C	
Coefficient of thermal expansion acc. to DIN 53752 (T ₀ = 25°C)	30 °C	55 x 10 ⁻⁶ ·K ⁻¹
	40 °C	57 x 10 ⁻⁶ ·K ⁻¹
	50 °C	58 x 10 ⁻⁶ ·K ⁻¹
	60 °C	59 x 10 ⁻⁶ ·K ⁻¹
	70 °C	60 x 10 ⁻⁶ ·K ⁻¹
	80 °C	62 x 10 ⁻⁶ ·K ⁻¹
	90 °C	64 x 10 ⁻⁶ ·K ⁻¹
	100 °C	67 x 10 ⁻⁶ ·K ⁻¹
	110 °C	71 x 10 ⁻⁶ ·K ⁻¹
120 °C	75 x 10 ⁻⁶ ·K ⁻¹	

* measured average values

The boards are available in the following standard dimensions:

- 1500 x 500 x 50 / 75 / 100 mm

Other dimensions, cuts, bonded blocks, rough pre-milling and block casts on request.

Boards, finished tools and models should be stored flat in dry conditions. The material should be acclimatized to 18 - 25° C prior to machining. Temperature variations should be kept as moderate as possible.

Status: 14.06.2016