A110

Bimetallic cylinder inlay

The Bernex bimetallic cylinder is normally used for standard injection molding and extrusion processes. Plastics with a filler content up to 10% are processed very well.

Structure	**Micro Hardness HV 0.1**
Fe – Boride/ -Karbide	1100 – 1300
Eutektikum	950 – 1050
Bainit/Martensit	400 - 600

Fe based alloy

Anti-abrasive	
Hardness	58-65 HRC
Density	7.6 kg/dm^3
Max. process temperature*	400 °C

Typical Plastics

Polyolefine, 10% filling content
ASA
ABS
PETP

Thermal Properties

	RT – 100 °C	**RT - 300 °C**	**RT – 400 °C**
Coefficient of expansion (1/°C)	8.25 * 10^{-6}	9.6 * 10^{-6}	10.0 * 10^{-6}

	100°C	**200°C**	**400°C**
Coefficient of expansion ($WK^{-1}m^{-1}$)	14	17	

all details are standard values

* Max. process temperature refers to the temperature level for which the barrel can process without compromise to the physical properties of the inlay and backing steel.