



PTFE-BR40 T110 – brown

General

T110-BR40 is a PTFE (Polytetrafluorethylene) filled with 40% bronze in brown colour. Due to the filling, the material is more resistant to “cold flow” and provides the necessary properties to be used as composite seals with energizer to withstand high pressures. The chemical resistance and temperature range is similar to virgin PTFE, which makes it a very universal sealing material.

T110-BR40 should not be used for applications in water.

Physical properties

Density:	ASTM D792	g/cm ³	3,05 – 3,15
Hardness:	ASTM D2240	Shore D	≥ 60
Tensile strength:	ASTM D4894	N/mm ²	≥ 15
Elongation at break:	ASTM D4894	%	≥ 200
Ball Hardness H132/6:	ASTM D785	N/mm ²	≥ 25
Coefficient of friction (dyn.):	ASTM D1894	μ	0,12 – 0,25
Wear factor (K):	ASTM D3702	-	0,01 – 0,03
Compr. strength at 1% deformation:	ASTM D695	N/mm ²	7 – 9
Therm. Exp. Coeff. (lin.) 25-100°:	ASTM D696	10 ⁻⁵ /°C	9 – 11
Min. service temperature:		°C	- 200
Max. service temperature:		°C	260

Chemical resistance

Water up to 70°	R	Vegetable oils	R
Water up to 90°	R	Fuels	R
HFA	R	Ozone	R
HFB	R		
HFC	R	Air up to 100°	R
HFD	R	Air up to 150°	R
Mineral oils	R	Air up to 200°	R

Key to chemical resistance: R = resistant S = suitable U = unsuitable

Main application

Piston / Rod seals with spring or elastomere energizer, rotary seals, back-up rings, special seals and O- rings, high and low temperature applications, chemical resistance required, low friction applications.

Analysis and Evaluation

The properties relate to fundamental values of PTFE. Product values mentioned above are corresponding to ASTM or DIN standards and have been tested on standardized plates in the laboratory.

HYDROMARK LTD., Tsar Osvoboditel 315 blvd. ,Varna 9023, Bulgaria

T: +35952506013, M: +359888837841, E: info@hydromark.eu

