



FLEXIBORE® RADIOPROTECTION

BORFLEX® is a French and European leader in technical rubber parts.

Having been ISO-9001 certified for several years, we have developed and perfected our rubber mixture using B4C powder. Our factory is equipped for the production and cutting of flexible B4C sheets after calendering.



USE

Absorption of thermal neutrons

DESCRIPTION

Flexibore is a material composed of natural rubber and B4C powder.

B4C accounts for 50% of the weight of the Flexibore sheet. The B10 content in the material absorbs neutrons. Scattering is negligible in relation to the absorption of neutrons. Flexibore is also used in neutron spectrometry to reduce background noise.

CHARACTERISTICS

- High flexibility: adapts to complex shapes
- Folds to a small radius without breaking
- Uniform distribution of the B4C powder
- Easy to cut
- Black colour

SPECIFICATIONS

- Hydrogen density: approximately 0.05 g / cm³
- Weight of the Flexibore: 50% B4C - 50% rubber
- Hardness: 70 / 75 shore A
- Boron in the B4C: 76%
- Density: 1.55 g / cm³
- Use temperature: max. 80°C

Ref	Thickness	Dimensions	Weight (Kg)	% B4C weight	ATTENUATION	λ
FB5	5	2000 x 500	8	50	$> 10^{-3}$	$> 1.8 \text{ \AA}$
FB2	2	2000 x 500	3,2	50	> 16	$> 1.8 \text{ \AA}$

BORFLEX® guarantees that this product will deliver the stated performance levels, provided it is stored in accordance with normative requirements. Because BORFLEX® has no control over the use of the product, no guarantee can be provided, for any application whatsoever.