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**BORFLEX** is the specialist in sealing technology (water, air, noise,..) ensuring safety.

**BORFLEX** supports you through your best-in-class projects, from the design to the production of efficient solutions, in accordance with the highest requirements.

**BORFLEX** produces a wide range of sealing solutions for hydro electric applications and supplies tailor-made products all over the world.

in accordance with  
**DIN 19704-2**

## **RUBBERFLOW**<sup>®</sup>

*Engineering elastomers for  
the hydropower industry*



### SOLUTIONS FOR THE HYDROPOWER INDUSTRY

RUBBERFLOW® is a wide range of engineered elastomers specifically created for hydropower applications all over the world. RUBBERFLOW® range meets the highest specifications worldwide, ensuring:

- ▶ abrasion resistance,
- ▶ tear resistance,
- ▶ deflection resistance,
- ▶ weathering resistance,
- ▶ chemical resistance,
- ▶ compression set,
- ▶ effect of aging,
- ▶ resistance to ozone and UV,
- ▶ etc.

Sealing solutions made of RUBBERFLOW® compounds have been supplied to the major OEMs (ALSTOM, ANDRITZ, EDF, VNF, CNR, etc.).

### TYPICAL SEALING APPLICATIONS

RUBBERFLOW® elastomeric compounds for various types of seals:

- ▶ J-seals,
- ▶ gate seals,
- ▶ seal transition corners,
- ▶ fabric reinforced seals,
- ▶ flat corners,
- ▶ edge-bulb corners,
- ▶ special shaped seals,
- ▶ fluoro carbon clad rubber seals,
- ▶ blocks,
- ▶ plugs,
- ▶ dampers,
- ▶ bumpers,
- ▶ pads,
- ▶ etc.

### TAILOR-MADE SERVICES

- ▶ Profiles any size (up to 70kg/meter)
- ▶ Full-molded corners
- ▶ Specific protective packaging
- ▶ On-site vulcanization if necessary

### RUBBERFLOW® TECHNICAL SPECIFICATIONS

CHARACTERISTICS AND TEST CRITERIA	UNIT	TESTING TO	RUBBERFLOW® 700+ CR (extr.*)	RUBBERFLOW® 650M NR (mold.**)	RUBBERFLOW® 600 M CR (mold.**)
HARDNESS	ShA	ISO 7619-1	70	65	60
TENSILE STRENGTH	N/mm <sup>2</sup>	ISO 37	≥ 17	≥ 20	≥ 20
COMPRESSION SET 24h; 70°C) %	%	ISO 815-1	≤ 20	≤ 25	≤ 25
RESISTANCE TO OZONE (24h; 50 pphm)	-	DIN 53509-1	cracks, class 0	cracks, class 0	cracks, class 0
ABRASION RESISTANCE INDEX	mm <sup>3</sup>	ISO 4649	≤ 100	≤ 120	≤ 120
WATER ABSORPTION (25°C)		-	≤ 5	≤ 5	≤ 5
100% MODULUS	Mpa	ISO 37	≥ 3	≥ 2	≥ 1,7
ELONGATION AT BREAK (%)	%	ISO 37	≥ 300	≥ 500	≥ 600
TEAR RESISTANCE	kN/m	NFT 46-007	≥ 45	≥ 90	≥ 50

symbols taken from ISO 1629 : CR : chloroprène NR : natural rubber  
\* extr. : extrusion process \*\* mold. : molding process

The technical data contained herein is based on the results of long term tests carried out in our laboratories and to the best of our knowledge is true and accurate on the date of publication. It is however subject to change without prior notice and the user should contact BORFLEX to verify the technical data is correct before specifying or ordering. No guarantee of accuracy is given or implied. We assume no responsibility for rates of coverage, performance or injury resulting from use. Liability, if any, is limited to the replacement of products. No other warranty or guarantee of any kind is made by BORFLEX, express or implied, whether statutory, by operation of law or otherwise, including merchantability or fitness for a particular purpose.

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Floating dam



Wharf fender



Navigational lock