

Title (en)  
PUMP DIAPHRAGM

Title (de)  
PUMPENMEMBRAN

Title (fr)  
MEMBRANE DE POMPE

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Application  
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Abstract (en)  
[origin: WO2018060034A1] The invention relates to a pump diaphragm (1) for a diaphragm pump for conveying a fluid, comprising a solid core (3) with a connection device (4) for a drive rod of the diaphragm pump, and a plate-shaped elastic diaphragm body (2) made of rubber having a peripheral clamping edge (6). The solid core (3) is embedded at least partially in the diaphragm body (2), and, according to the invention, the solid core (3) is produced from a thermoplastic and forms covalent bonds with the elastic diaphragm body (2) made of rubber without adhesive. For this purpose, the thermoplastic, for example polyamide 612 or polyphenylene ether, and the rubber, a periodically cross-linked rubber such as EPDM, are selected in such a way that they are covalently cross-linked with one another at the boundary layer. In this way, a bonding layer that is susceptible to weakening or destruction is not present between the core and the diaphragm body.

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