

PVDF

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agru
TECHNOLOGY
IN PLASTICS



PVDF PIPES, FITTINGS AND SEMI-FINISHED PRODUCTS FOR CHEMICAL APPLICATIONS

For more than years AGRU Kunststofftechnik GmbH has been producing pipes, fittings and semi-finished products out of thermoplastics for piping systems and apparatus engineering.

A thermoplastic material for the future

In order to meet the raised requirements on thermoplastics for apparatus engineering and piping systems, high-grade thermoplastics have been developed. PVDF (polyvinylidene-fluoride) is a thermoplastic material which is distinguished from other fluorinated polymers by the ease with which it can be applied and processed.

PVDF is recognized by its high mechanical strength and its very good chemical resistance, even at higher temperatures. PVDF is a homopolymer without additives such as stabilizers and colourings..

control (from the raw material control, the production controls to the final controls before the dispatch) our products as well as our quality assurance system are regularly supervised by independent testing institutes at home and abroad.

Many application areas

Due to its special properties PVDF is suitable for many applications, especially, if great demands are made on the chemical resistance at high processing temperatures.

AGRU-PVDF piping systems and semi-finished products are successfully applied for:

- equipment for the food-stuff industry
- processing systems for the chemical and crude oil industry
- high-purity water systems for the semi-conductor industry
- lining of tanks and pipes to protect against corrosion

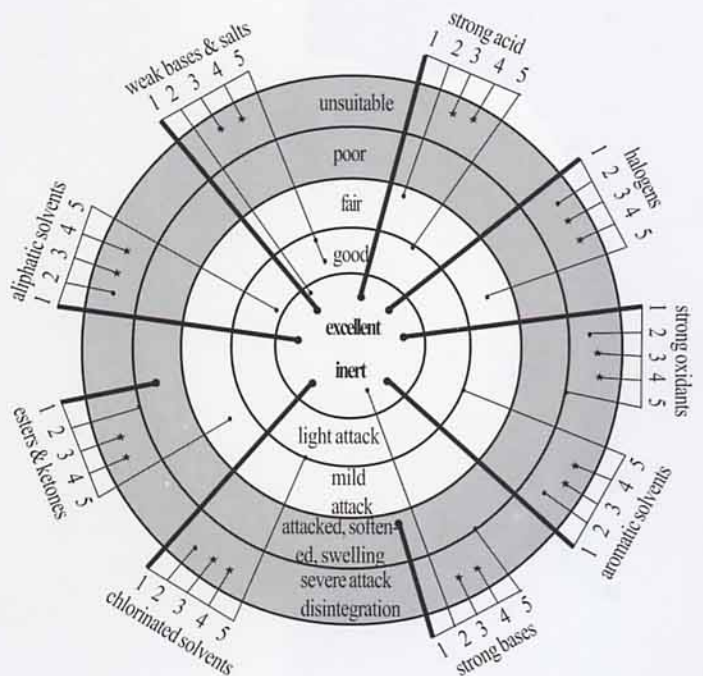
Quality - not only a slogan

Due to our extensive quality assurance system all products are adapted to the requirements in practice. Beside the several steps in the company's internal

Typical applications

Chemical resistance of PVDF at 95° C in comparison with other plastics

- 1 PVDF Polyvinylidene fluoride
- 2 PP Polypropylene
- 3 PVDC Polyvinylidenechloride
- 4 PVC Polyvinylchloride hard
- 5 Polyester (glass fiber reinforced)



Advantages for your application

- wide temperature range: -40° C up to max. +140° C max (short-term), permanent operating temperature: 95° C.
- self-extinguishing according to UL 94-VO
- good mechanical properties
- good and easy processing
- excellent insulating characteristics in connection with very good electrical values
- excellent abrasion resistance and weathering resistance
- very good sliding properties (low friction coefficient)
- very good chemical resistance, resistant to the most industrial acids, bases and solvents, even at high temperatures
- good resistance to permeability
- radiation resistant up to 200 M-rad
- physiologically non-toxic

Everything from one source

Due to its comprehensive PVDF production program. AGRU is able to supply all components for piping systems and apparatus engineering.

For piping systems with high-purity chemicals and for the semi-conductor industry, AGRU is producing the High-Purity-Program. Please ask for our special brochures.

For further details and an extensive product information please contact the AGRU application engineers and our distributing partners.



PRODUCT RANGE

PIPES

Ø 20 - 450 mm
PN 10 - PN 16, (20),
Standard length 5m,
Special lengths on request

SEMI-FINISHED PRODUCTS, SHEETS

extruded, thickness 1,5 - 4 mm
one-side laminated with
- polyester-fabric
- glass fibre fabric

WELDING RODS

extruded, Ø 3 mm,
Special designs and other
diameters on request

FITTINGS

FOR SOCKET WELDING
Ø 16 - 110 mm, PN 20

FITTINGS

FOR BUTT WELDING
PN 10, 16

BENDS 90° Ø 20 - 250 mm

ELBOWS 45° Ø 20 - 63 mm

TEES Ø 20 - 250 mm

END CAPS Ø 20 - 110 mm

REDUCERS

concentric Ø 20 - 315 mm

REDUCERS

concentric, with elongated legs
Ø 20 - 160 mm

STUB FLANGES

Ø 20 - 250 mm

PP-BACKING RINGS

with steel insert, black
Ø 20-315 mm, PN 10

VALVES

SPECIAL FITTINGS and fittings in other dimensions and pressure ratings are available on request after clarification of the minimum order quantities.

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