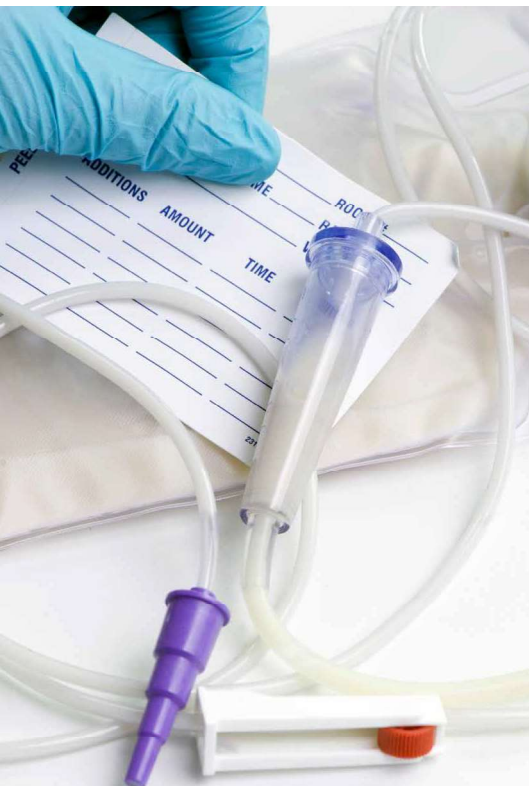


Typical applications for Kynar[®] :

- Medical Tubing
- Medical molded components such as needle fittings for syringes
- Single use films for bioreactors



KYNAR[®] MEDICAL GRADE FLUOROPOLYMERS

Kynar[®] MED PVDF offers extreme performance where sterilization chemical resistance, high temperatures, and high purity are required. Readily processable via extrusion and injection molding, Kynar[®] MED PVDF has the properties and characteristics of other medical grade fluoropolymers and compliments the other polymers in the Arkema MED portfolio.

Medical use

- Certifications
 - USP Class VI
 - ISO 10993-4
 - ISO 10993-5
- Sterilization feasibility (ETO, steam, gamma up to 10 Mrads)
- BPA and plasticizer free

Key Properties

- **Excellent chemical resistance:** Kynar[®] MED PVDF is inherently inert to all sterilization chemistries, as well as organic chemistries for drug delivery systems.
- **High-purity:** Containing no fillers, additives, or stabilizers, Kynar[®] MED PVDF is a high purity polymer with limited leachables and extractables.
- **High-thermal stability:** 150°C (302°F) rated, Kynar[®] MED PVDF is able to be autoclaved.
- **Easily Processible:** Kynar[®] MED PVDF can be easily injection molded and extruded into films, tubes, and other profiles.

Grade available

Kynar[®] 720 MED

KYNAR® 720 MED

TECHNICAL DATA SHEET

Kynar® 720 MED is a fluorinated thermoplastic homopolymers.

Outstanding characteristics: chemical resistance, imperviousness to UV, high barrier properties, high purity, good mechanical and thermo-mechanical properties, resistant to gamma, steam and ETO sterilization.

Kynar® 720 MED resin is a dedicated grade of granules for extrusion and injection molding for the medical market. This product is compliant with the EU positive list.

MAIN CHARACTERISTICS

PROPERTIES	VALUE	UNIT	TEST STANDARD
Melt Flow Rate	14 - 26.5	g/10min	ASTM D1238
Temperature	230	°C	-
Load	3.8	kg	-
Tensile Modulus, 73 °F	200000 - 335000	psi	ASTM D638
Tensile Strength at Yield, 73 °F	6500 - 8000	psi	ASTM D638
Hardness, Shore D, 73 °F	76 - 80	-	ASTM D2240
Flexural Modulus, 73 °F	200000 - 335000	psi	ASTM D790
Flexural Strength @ 5% Strain, 73 °F	8500 - 11000	psi	ASTM D790
Unnotched Impact Strength, 73 °F	20 - 80	ftlb/in	ASTM D256
Notched Impact Strength, 73 °F	1.5 - 4	ftlb/in	ASTM D256
Melting Point	329 - 342	°F	ASTM D3418
Water Absorption	0.02	%	Sim. to ISO 62
Specific Gravity, 73 °F	1.77 - 1.79	-	ASTM D792

Processing conditions Injection:

- Typical melt temperature (Min / Recommended / Max): 190 °C / 210-220 °C / 250 °C
- Typical mold temperature: 50 °C.
- Drying time and temperature : Not necessary.

Processing conditions Extrusion:

- Typical melt temperature (Min / Recommended / Max): 190 °C / 220-230 °C / 250 °C.
- Drying time and temperature : Not necessary.