



Arkema Kynar® MED

At NCC we provide a full range of technical polymer and additive materials for supply to the medical device and healthcare sectors. As part of our portfolio of products, we offer the full range of Arkema medical polymers, including Kynar® 720 MED.

Kynar® MED PVDF offers extreme performance where sterilisation 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 complements the other polymers in the Arkema MED portfolio.

Typical applications for Kynar®

- Medical tubing
- Medical moulded components such as needle fittings for syringes
- Single use films for bioreactors

Key properties:

- **Excellent chemical resistance:** Kynar® MED PVDF is inherently inert to all sterilisation chemistries, as well as organic chemistries for drug delivery systems
- **High-purity:** Containing no fillers, additives, or stabilisers, 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 moulded and extruded into films, tubes, and other profiles

Medical use

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



MEDICAL &
HEALTHCARE
POLYMER
SOLUTIONS

ARKEMA
INNOVATIVE CHEMISTRY

KYNAR®
MED
BY ARKEMA

Kynar® 720 MED is a fluorinated thermoplastic homopolymers.

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

Kynar® 720 MED resin is a dedicated grade of granules for extrusion and injection molding for the medical market.

MEDICAL GRADE FLUOROPOLYMERS			
KYNAR®			
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 ABSORTION	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 mould 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



For further information contact us or visit ncc.ie.

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