KYNARRX BY ARKEMA

Kynar Rx® 752 Pellets

Kynar Rx® 752 is a pelletized, semi-crystalline based copolymer made of vinylidene fluoride and hexafluoropropylene. It is a versatile engineering plastic with an outstanding balance of physical and chemical properties, which qualify it for high performance service in a wide range of applications for the biopharmaceutical and medical device industries.

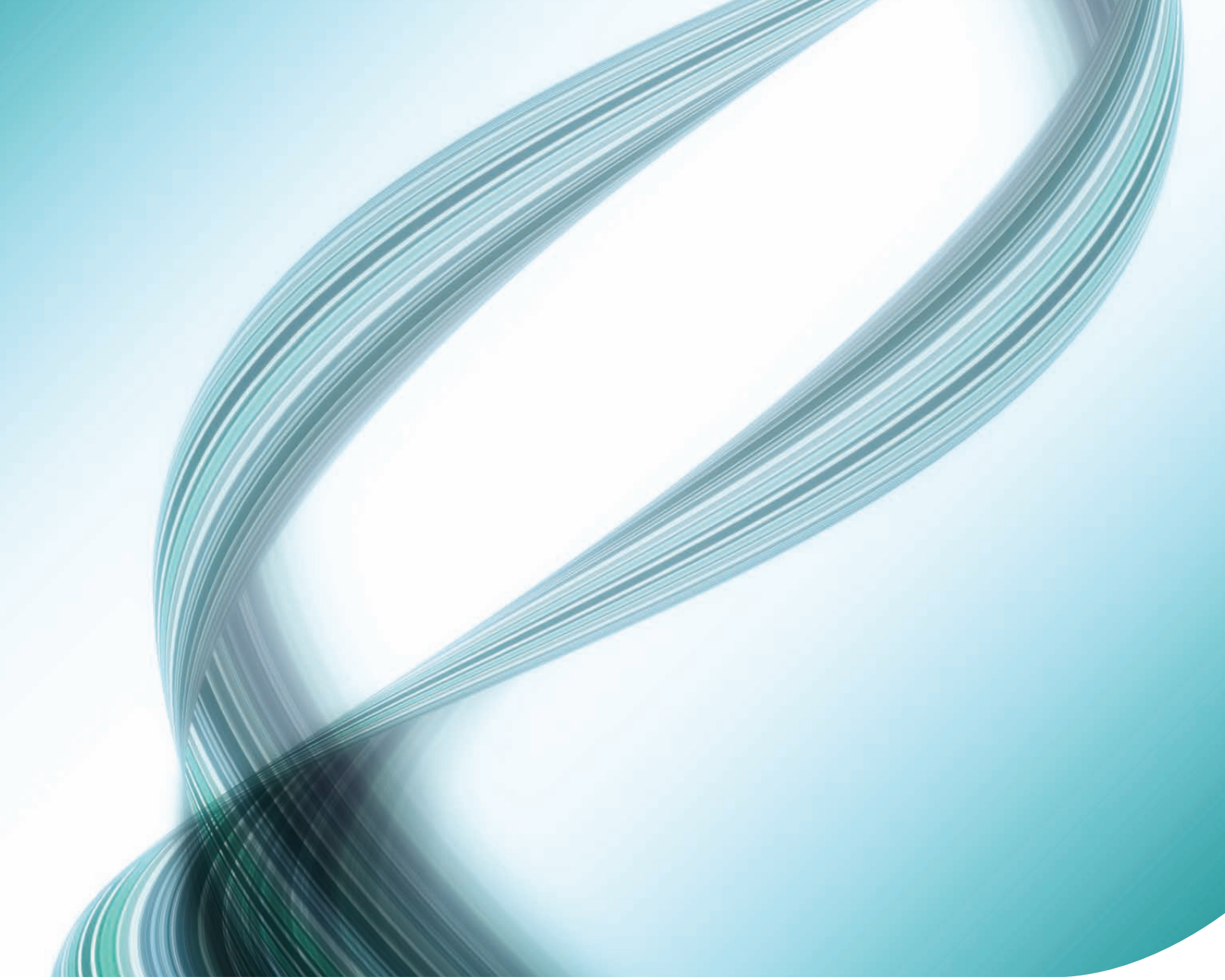
Kynar Rx® 752 has an ultra low extractables profile and an array of biocompatibility approvals. The high flexibility and low melt viscosity makes this material ideal for injection molding and multilayer constructions for films and tubing. Therefore, it is possible to design an entire single use system with a single contact material.

The following tables and figures summarize the properties of Kynar Rx® 752:

Other characteristics of Kynar Rx® 752:

- Easily processed on conventional equipment
- Easily weldable
- Excellent thermal stability
- Bio-Inert
- Ultra low leachables and extractables
- Sterilizable by irradiation, autoclave, or chemical
- Strong chemical resistance
- Suitable for use with lipid sensitive cell lines
- USP Class VI compliance

TECHNICAL DATA FOR KYNAR Rx® 752 PELLETS				
	METHOD	CONDITIONS	ENGLISH COMMON UNITS	VALUE
PHYSICAL PROPERTIES				
Specific Gravity	D792	73°F (23°C)	–	1.78 – 1.80
Melting Temperature	D3418	–	°F (°C)	266 – 280 (130 – 138)
Water Absorption	D570	at 68°F (20°C)	%	0.03 – 0.06
		Immersion/24 hours		
PROCESSING CHARACTERISTICS				
Melt Viscosity	D3835	450°F, 100 sec-1	poise	6,000 – 15,000
Melt Flow Rate	D1238	450°F, 3.8 kg	g/10 min	2 – 16
Mold Shrinkage	D955	–	%	2 – 3.5
THERMAL PROPERTIES				
Coefficient of Linear Thermal Expansion	D696	–	10E-5/°F	9.0 – 12.0
Deflection Temperature	D648	at 66 psi (0.45 MPa)	°F(°C)	120 – 150 (49 – 65)
Deflection Temperature	D648	at 264 psi (1.82 MPa)	°F(°C)	95 – 125 (35 – 51)
MECHANICAL PROPERTIES				
Tensile Yield Strength	D638	73°F (23°C)	psi (MPa)	2000 – 3100 (14 – 21)
Tensile Break Strength	D638	73°F (23°C)	psi (MPa)	2900 – 4000 (20 – 27)
Tensile Break Elongation	D638	73°F (23°C)	%	200 – 400
Tensile Modulus	D638	73°F (23°C)	psi (MPa)	40,000 – 65,000 (276 – 448)
Flexural Modulus	D790	73°F (23°C)	psi (MPa)	40,000 – 60,000 (276 – 414)
Flexural Strength @ 5% Strain	D790	73°F (23°C)	psi (MPa)	2000 – 3500 (14 – 24)
Compressive Strength	D695	73°F (23°C)	psi (MPa)	3500 – 4500 (24 – 31)
Notched Izod Impact Strength	D256	73°F (23°C)	ft-lb/in	No Break
Unnotched Izod Impact Strength	D256	73°F (23°C)	ft-lb/in	No Break
Hardness	D2240	73°F (23°C)	Shore D	57 – 62



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