KYNAR®

TECHNICAL DATA SHEET

KYNAR® MG15 POWDER

FLUORINATED HOMOPOLYMER POWDER

KYNAR® resins are fluorinated thermoplastic homopolymers.
KYNAR® MG15 resin is a crystalline high viscosity polymer of polyvinylidene difluoride. It is an engineering polymer with an outstanding balance of physical strength and high chemical resistance which make it ideal for micro and ultra-filtration membranes for durable water purification and other applications.
KYNAR® MG15 resin is soluble in selected solvents and can be used in solution processing applications. It is especially recommended for hollow fiber and flat sheet membranes.
KYNAR® MG15 resin has NSF, FDA, and USP Class VI certifications for use in potable water, food processing, and bio-pharma applications.

TYPE

PVDF

MAIN APPLICATIONS

- water membrane

DELIVERY FORM

- Powder

RHEOLOGICAL PROPERTIES

PROPERTIES	TYPICAL VALUE	UNIT	TEST STANDARD
Melt viscosity, 230°C (446°F) at 100 s-1	33 - 39	kPo	ASTM D3835

MECHANICAL PROPERTIES

PROPERTIES	TYPICAL VALUE	UNIT	TEST STANDARD
Tensile modulus, 23°C (73°F)	1845	MPa	ASTM D638
Yield stress, 23°C (73°F)	44.8 - 55.2	MPa	ASTM D638
Flexural modulus, 23°C (73°F)	1380 - 2310	MPa	ASTM D790

THERMAL PROPERTIES

PROPERTIES	TYPICAL VALUE	UNIT	TEST STANDARD
Glass transition temperature, 10°C/min	-40	°C	ISO 11357-1/-2
Melting temperature, 10°C/min	168	°C	ISO 11357-1/-3

OTHER PROPERTIES

PROPERTIES	TYPICAL VALUE	UNIT	TEST STANDARD
Solution viscosity, 20°C (68°F)	1500	cPo	Internal Arkema
Density, 23°C (73°F)	1.77 - 1.79	g/cm³	ISO 1183-1

PACKAGING

Available packaging:
- 20 kg / 45 lb metal drum
- 300 kg / 660 lb big bag
- 320 kg / 700 lb big bag
- 45 kg / 100 lb plastic drum

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SPECIAL CHARACTERISTICS

- Flame & smoke

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