KYNAR®
MG15

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.

PROPERTIES	VALUE	UNIT	TEST STANDARD
RHEOLOGICAL PROPERTIES			
Melt Viscosity, 230°C, 100 s^{-1}	33 - 39	kPoise	ASTM D3835
MECHANICAL PROPERTIES			
Tensile Modulus, 73 °F	1380 - 2310	MPa	ASTM D638
	200000 - 335000	psi	
Tensile Strength at Yield, 73 °F	44.8 - 55.2	MPa	ASTM D638
	6500 - 8000	psi	
Flexural Modulus, 73 °F	1380 - 2310	MPa	ASTM D790
	200000 - 335000	psi	
THERMAL PROPERTIES			
Melting Temperature, 10°C/min	168	°C	ISO 11357-1/-3
Melting Point	162 - 172	°C	ASTM D3418
Glass Transition Temperature, 10°C/min	-40	°C	ISO 11357-1/-2
OTHER PROPERTIES			
Water Absorption	≤0.04	%	ASTM D570
Density	1780	kg/m³	ISO 1183
	1.78	g/cm³	
Specific Gravity, 73 °F	1.77 - 1.79	-	ASTM D792
Solution Viscosity, 20°C, #3 Brookfield	≥1500	cps	10% NMP Solution Spindle@20 RPM Spindle Viscometer
OPTICAL PROPERTIES			
Refractive Index @ sodium D line	1.42	-	ASTM D542

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PROCESSING

Casting

DELIVERY FORM

Powder

SPECIAL CHARACTERISTICS

Food Contact Approval

REGIONAL AVAILABILITY

North America, Europe, Asia Pacific, South and Central America, Near East/Africa

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