

# 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 <sup>-1</sup>	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/m <sup>3</sup>	ISO 1183
	1.78	g/cm <sup>3</sup>	
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

Arkema France - A French "société anonyme", registered in the Nanterre (France)  
Trade and Companies Register under the number 319 632 790 SDC/11-2018  
Source: automatically generated TDS from Material Database on 20-02-2024

# KYNAR<sup>®</sup>

## MG15

<b>PROCESSING</b> Casting	Headquarters: Arkema France 420 rue d'Estienne d'Orves 92705 Colombes Cedex France T +33 (0)1 49 00 80 80 hpp.arkema.com  Arkema Inc. – High Performance Polymers 900 First Avenue King of Prussia, PA 19406 Tel.: +1 610 205 7000 hpp.arkema.com
<b>DELIVERY FORM</b> Powder	
<b>SPECIAL CHARACTERISTICS</b> Food Contact Approval	
<b>REGIONAL AVAILABILITY</b> North America, Europe, Asia Pacific, South and Central America, Near East/Africa	

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