

# 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
<b>RHEOLOGICAL PROPERTIES</b>			
Melt Viscosity, 230°C, 100 s <sup>-1</sup>	33 - 39	kPoise	ASTM D3835
<b>MECHANICAL PROPERTIES</b>			
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	
<b>THERMAL PROPERTIES</b>			
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
<b>OTHER PROPERTIES</b>			
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
<b>OPTICAL PROPERTIES</b>			
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 12-08-2024

# KYNAR<sup>®</sup> MG15

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

The statements, technical information and recommendations contained herein are believed to be accurate as of the date hereof. Since the conditions and methods of use of the product and of the information referred to herein are beyond our control, ARKEMA expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information; NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE GOODS DESCRIBED OR THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specific product designated and may not be applicable when such product is used in combination with other materials or in any process. The user should thoroughly test any application before commercialization. Nothing contained herein constitutes a license to practice under any patent and it should not be construed as an inducement to infringe any patent and the user is advised to take appropriate steps to be sure that any proposed use of the product will not result in patent infringement.