

Kynar® resins are fluorinated thermoplastic homopolymers.

**Outstanding characteristics:** chemical resistance, imperviousness to UV, high barrier properties, high purity, good mechanical and thermo-mechanical properties. This product is **NSF/ANSI/CAN 61** certified.

Flexural Modulus, 73 °F         1380 - 2210         MPa         ASTM D790           200000 - 320000         psi           Compressive Strength, 73 °F         68.9 - 103         MPa         ASTM D695           10000 - 15000         psi           Notched Impact Strength, 73 °F         0.107 - 0.32         kJ/m         ASTM D256           2 - 6         ftlb/in           THERMAL PROPERTIES           Melting Point         165         °C         ASTM D3418	PROPERTIES	VALUE	UNIT	TEST STANDARD
MECHANICAL PROPERTIES           Tensile Strength at Yield, 73 °F         40 - 55.2 bstongth at Yield, 73 °F         MPa bstongth at Strength at Break, 73 °F         ASTM D638 bstong D, 8000 bpsi           Tensile Strength at Break, 73 °F         34 - 43 bstong D, 73 °F         MPa bstong D, 73 °F         ASTM D638 bstong D, 73 °F           Elongation at Break, 73 °F         76 - 80 bstong D, 73 °F         ASTM D638 bstong D, 73 °F	RHEOLOGICAL PROPERTIES			
Tensile Strength at Yield, 73 °F         40 - 55.2 bswo - 8000 psi         MPa bswo - 8000 psi         ASTM D638 psi           Tensile Strength at Break, 73 °F         34 - 43 bswo - 6240 psi         MPa bsswo - 8000 psi         ASTM D638 psi           Elongation at Break, 73 °F         50 - 250 % ASTM D638 psi         ASTM D638 psi           Hardness, Shore D, 73 °F         76 - 80 - ASTM D2240 psi         MPa bssmo - ASTM D290 psi           Flexural Modulus, 73 °F         1380 - 2210 psi         MPa bssmo - ASTM D790 psi           Compressive Strength, 73 °F         68.9 - 103 psi         MPa bssmo - ASTM D695 psi           Notched Impact Strength, 73 °F         0.107 - 0.32 psi         KJ/m bssmo - ASTM D256 psi           Melting Point         165 °C ASTM D3418 psi           Limiting Oxygen Index         44 % ASTM D2863 psi           OTHER PROPERTIES           Density         1780 psi         kg/m³ ISO 1183 psi           Specific Gravity, 73 °F         1.77 - 1.79 - ASTM D792 psi           OPTICAL PROPERTIES         1.77 - 1.79 - ASTM D792 psi	Melt Viscosity, 230°C, 100 s <sup>-1</sup>	49.5	kPoise	ASTM D3835
Tensile Strength at Break, 73 °F         34 - 43         MPa         ASTM D638 ASTM D6	MECHANICAL PROPERTIES			
Tensile Strength at Break, 73 °F    34 - 43	Tensile Strength at Yield, 73 °F	40 - 55.2	MPa	ASTM D638
A930 - 6240   psi		5800 - 8000	psi	
Elongation at Break, 73 °F 50 - 250 % ASTM D638 Hardness, Shore D, 73 °F 76 - 80 - ASTM D2240 Flexural Modulus, 73 °F 1380 - 2210 MPa ASTM D790 200000 - 320000 psi  Compressive Strength, 73 °F 68.9 - 103 MPa ASTM D695 10000 - 15000 psi  Notched Impact Strength, 73 °F 0.107 - 0.32 kJ/m ASTM D256 2 - 6 ftlb/in  THERMAL PROPERTIES  Melting Point 165 °C ASTM D3418 Limiting Oxygen Index 44 % ASTM D2863  OTHER PROPERTIES  Density 1780 kg/m³ ISO 1183 1.78 g/cm³  Specific Gravity, 73 °F 1.77 - 1.79 - ASTM D792  OPTICAL PROPERTIES	Tensile Strength at Break, 73 °F	34 - 43	MPa	ASTM D638
Hardness, Shore D, 73 °F Flexural Modulus, 73 °F Flexu		4930 - 6240	psi	
The strength	Elongation at Break, 73 °F	50 - 250	%	ASTM D638
200000 - 320000   psi	Hardness, Shore D, 73 °F	76 - 80	-	ASTM D2240
Compressive Strength, 73 °F  68.9 - 103  MPa  ASTM D695  10000 - 15000  psi  Notched Impact Strength, 73 °F  0.107 - 0.32  kJ/m  ASTM D256  2 - 6  ftlb/in  THERMAL PROPERTIES  Melting Point  165  °C  ASTM D3418  Limiting Oxygen Index  44  %  ASTM D2863  OTHER PROPERTIES  Density  1780  kg/m³  I.78  g/cm³  Specific Gravity, 73 °F  1.77 - 1.79  - ASTM D792  OPTICAL PROPERTIES	Flexural Modulus, 73 °F	1380 - 2210	MPa	ASTM D790
Notched Impact Strength, 73 °F		200000 - 320000	psi	
Notched Impact Strength, 73 °F  0.107 - 0.32	Compressive Strength, 73 °F	68.9 - 103	MPa	ASTM D695
2 - 6   ftlb/in		10000 - 15000	psi	
THERMAL PROPERTIES           Melting Point         165         °C         ASTM D3418           Limiting Oxygen Index         44         %         ASTM D2863           OTHER PROPERTIES           Density         1780         kg/m³         ISO 1183           1.78         g/cm³           Specific Gravity, 73 °F         1.77 - 1.79         -         ASTM D792           OPTICAL PROPERTIES	Notched Impact Strength, 73 °F	0.107 - 0.32	kJ/m	ASTM D256
Melting Point         165         °C         ASTM D3418           Limiting Oxygen Index         44         %         ASTM D2863           OTHER PROPERTIES         1780         kg/m³ ISO 1183           Density         1.78         g/cm³           Specific Gravity, 73 °F         1.77 - 1.79         -         ASTM D792           OPTICAL PROPERTIES		2 - 6	ftlb/in	
Limiting Oxygen Index         44         %         ASTM D2863           OTHER PROPERTIES           Density         1780         kg/m³         ISO 1183           1.78         g/cm³         Specific Gravity, 73 °F         1.77 - 1.79         -         ASTM D792           OPTICAL PROPERTIES         OPTICAL PROPERTIES         -         ASTM D792	THERMAL PROPERTIES			
OTHER PROPERTIES           Density         1780         kg/m³         ISO 1183           1.78         g/cm³           Specific Gravity, 73 °F         1.77 - 1.79         -         ASTM D792           OPTICAL PROPERTIES	Melting Point	165	°C	ASTM D3418
Density         1780         kg/m³         ISO 1183           1.78         g/cm³         -         ASTM D792           OPTICAL PROPERTIES         -         ASTM D792	Limiting Oxygen Index	44	%	ASTM D2863
1.78         g/cm³           Specific Gravity, 73 °F         1.77 - 1.79         - ASTM D792           OPTICAL PROPERTIES	OTHER PROPERTIES			
Specific Gravity, 73 °F 1.77 - 1.79 - ASTM D792  OPTICAL PROPERTIES	Density	1780	kg/m³	ISO 1183
OPTICAL PROPERTIES		1.78	g/cm³	
	Specific Gravity, 73 °F	1.77 - 1.79	-	ASTM D792
Refractive Index @ sodium D line 1.42 - ASTM D542	OPTICAL PROPERTIES			
	Refractive Index @ sodium D line	1.42	-	ASTM D542

## **MAIN APPLICATIONS:**

Battery

· membrane







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Coating, Casting	Arkema France 420 rue d'Estienne d'Orves		
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North America, Europe, Asia Pacific, South and Central America, Near East/Africa	hpp.arkema.com		

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