

KYNAR® HSV 900

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.

PROPERTIES	VALUE	UNIT	TEST STANDARD
RHEOLOGICAL PROPERTIES			
Melt Viscosity, 230°C, 100 s ⁻¹	49.5	kPoise	ASTM D3835
MECHANICAL PROPERTIES			
Tensile Strength at Yield, 73 °F	40 - 55.2	MPa	ASTM D638
	5800 - 8000	psi	
Tensile Strength at Break, 73 °F	34 - 43	MPa	ASTM D638
	4930 - 6240	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/m ³	ISO 1183
	1.78	g/cm ³	
Specific Gravity, 73 °F	1.77 - 1.79	-	ASTM D792
OPTICAL PROPERTIES			
Refractive Index @ sodium D line	1.42	-	ASTM D542

MAIN APPLICATIONS:

- Battery
- membrane

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®

HSV 900

PROCESSING Coating, 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
DELIVERY FORM Powder	
SPECIAL CHARACTERISTICS Heat Stabilized	
REGIONAL AVAILABILITY North America, Europe, Asia Pacific, South and Central America, Near East/Africa	

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.