

## TECHNICAL DATA SHEET

# KYNAR® 761A POWDER

## FLUORINATED HOMOPOLYMER POWDER

KYNAR® resins are fluorinated thermoplastic homopolymers. Outstanding characteristics: chemical resistance, imperviousness to UV, high barrier properties, high purity, good mechanical and thermo-mechanical properties.

### DESIGNATION

PVDF

### MAIN APPLICATIONS

- Water Membrane - Others
- Water Membrane

### DELIVERY FORM

- Powder

## RHEOLOGICAL PROPERTIES

PROPERTIES	VALUE	TEST STANDARD
Melt viscosity, 230°C (445°F) at 100 s-1	30.5 - 36.5 kPo	ASTM D3835
Shrinkage, Normal (t+24h)	3.0 %	ISO 294-4
Shrinkage, Parallel (t+24h)	3.0 %	ISO 294-4
Melt flow index (MFR), 235°C / 5 kg (455°F / 11 lb)	0.5 - 3.5 g/10min	ASTM D1238
Melt volume flow rate (MVR), 230°C / 10 kg (445°F / 22 lb)	0.9 cm³/10min	ISO 1133

## MECHANICAL PROPERTIES

PROPERTIES	VALUE	TEST STANDARD
Yield stress, 23°C (73°F)	44.8 - 55.2 MPa	ASTM D638
Yield strain, 23°C (73°F), 50 mm/min	9 %	ISO 527-1/-2
Stress at break, 23°C (73°F)	34.5 - 55.2 MPa	ASTM D638
Nominal strain at break, 23°C (73°F), 50 mm/min	>50 %	ISO 527-1/-2
Compression strength, 23°C (73°F)	68.9 - 103 MPa	ASTM D695
Izod impact unnotched strength, 23°C (73°F)	1.07 - 4.27 kJ/m²	ASTM D256
Izod impact notched strength, 23°C (73°F)	0.0961 - 0.214 J/m	ASTM D256
Charpy unnotched impact strength, 23°C (73°F)	50 kJ/m²	ISO 179 1eU
Hardness, Shore D	76 - 80	ASTM D2240
Flexural modulus, 23°C (73°F)	1380 - 2310 MPa	ASTM D790
Tensile modulus, 23°C (73°F)	2000 MPa	ASTM D638
Coefficient of friction dynamic vs steel, 23°C (73°F)	0.14	ASTM D1895
Coefficient of friction static vs steel, 23°C (73°F)	0.2	ASTM D1894
Abrasion resistance, Wheel CS 17, load 1 kg, 1000 cycles	5 - 9 mg	ASTM G195-13A

# KYNAR® 761A POWDER

## THERMAL PROPERTIES

PROPERTIES	VALUE	TEST STANDARD
Glass transition temperature, 10°C/min	-40 °C	ISO 11357-1/-2
Limiting oxygen index (LOI)	44 %	ASTM D2863
Yellow card available	yes	
Coefficient of linear thermal expansion, 23°C (73°F)	119 - 144 10E-6 / °K	ASTM D696
Specific heat temperature, 23°C (73°F)	745 - 958	ISO 11357-1/-2
Heat deflection temperature, 1.8 MPa	104 °C	ISO 75-1/-2
Heat deflection temperature, 1.8 MPa, 138°C/h	105 - 115 °C	ASTM D648
Heat deflection temperature, 0.45 MPa, 138°C/h	125-140 °C	ASTM D648
Thermal conductivity	0.17 - 0.19 W/m-K	ASTM D433
Melting temperature, 10°C/min	170 °C	ISO 11357-1/-3

## ELECTRICAL PROPERTIES

PROPERTIES	VALUE	TEST STANDARD
Dielectric constant, 1kHz	4.5 - 9.5	ASTM D150
Volumic (transversal) resistivity, DC, 20°C (68°F)/50%RH	2.0E+12 ohm*m	ASTM D257
Dissipation factor	0.01 - 0.21	ASTM D150

## OTHER PROPERTIES

PROPERTIES	VALUE	TEST STANDARD
Specific gravity, 23°C (73°F)	1.77 - 1.79 g/cm <sup>3</sup>	
Water absorption, Saturated in water at 23°C (73°F)	0.02 %	ASTM D570

## SPECIAL CHARACTERISTICS

- Flame & smoke

**Headquarter: Arkema France**  
420, rue d'Estienne d'Orves  
92705 Colombes Cedex – France  
T +33 (0)1 49 00 80 80

Disclaimer - Please consult Arkema's disclaimer regarding the use of Arkema's products on <https://www.arkema.com/global/en/products/product-safety/disclaimer/> which is incorporated herein by reference and made a part hereof.  
Arkema France, a French société anonyme registered at the Trade and Companies Register of Nanterre under the number 319 632 790

**ARKEMA**