

## TECHNICAL DATA SHEET

# KYNAR® 6000 HD

## FLUORINATED HOMOPOLYMER PELLET

KYNAR® resins are fluorinated thermoplastic homopolymers. Outstanding characteristics: chemical resistance, imperviousness to UV, high barrier properties, high purity, good mechanical and Thermo-mechanical properties KYNAR® 6000 HD resin is a standard grade of granules for injection molding.

### DESIGNATION

PVDF

### MAIN APPLICATIONS

- Hi Purity
- CPI - Distribution
- Molding
- Tubing
- CPI - Stock Shape

### DELIVERY FORM

- Pellets

### TRANSFORMATION PROCESSES

- Injection Molding

## RHEOLOGICAL PROPERTIES

PROPERTIES	VALUE	TEST STANDARD
Melt viscosity, 230°C (445°F) at 100 s <sup>-1</sup>	1.1 kPo	ASTM D3835
Shrinkage, Normal (t+24h)	2.0 %	ISO 294-4
Shrinkage, Parallel (t+24h)	2.0 %	ISO 294-4
Melt volume flow rate (MVR), 230°C / 5 kg (446°F / 11 lb)	6.7 cm <sup>3</sup> /10min	ISO 1133

## MECHANICAL PROPERTIES

PROPERTIES	VALUE	TEST STANDARD
Tensile modulus, 23°C (73°F), 1 mm/min	2300 MPa	ISO 527-1/-2
Yield stress, 23°C (73°F), 50 mm/min	52 MPa	ISO 527-1/-2
Yield strain, 23°C (73°F), 50 mm/min	9 %	ISO 527-1/-2
Nominal strain at break, 23°C (73°F), 50 mm/min	40 %	ISO 527-1/-2
Charpy unnotched impact strength, 23°C (73°F)	227 kJ/m <sup>2</sup>	ISO 179 1eU
Charpy unnotched impact strength, -30°C (-22°F)	221 kJ/m <sup>2</sup>	ISO 179 1eU
Charpy notched impact strength, 23°C (73°F)	12 kJ/m <sup>2</sup>	ISO 179 1eA
Charpy notched impact strength, -30°C (-22°F)	5 kJ/m <sup>2</sup>	ISO 179 1eA

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## THERMAL PROPERTIES

PROPERTIES	VALUE	TEST STANDARD
Glass transition temperature, 10°C/min	-40 °C	ISO 11357-1/-2
Vicat softening temperature, 50N at 50°C/h	140 °C	ISO 306
Limiting oxygen index (LOI)	80 %	ASTM D2863
Heat deflection temperature, 1.8 MPa	108 °C	ISO 75-1/-2
Melting temperature, 10°C/min	171 °C	ISO 11357-1/-3

## ELECTRICAL PROPERTIES

PROPERTIES	VALUE	TEST STANDARD
Comparative tracking index	600	IEC 60112
Relative permittivity, 100Hz	9.5	IEC 60250
Relative permittivity, 1MHz	7	IEC 60250
Dissipation factor, 100Hz	280 E-4	IEC 60250
Dissipation factor, 1MHz	2200 E-4	IEC 60250

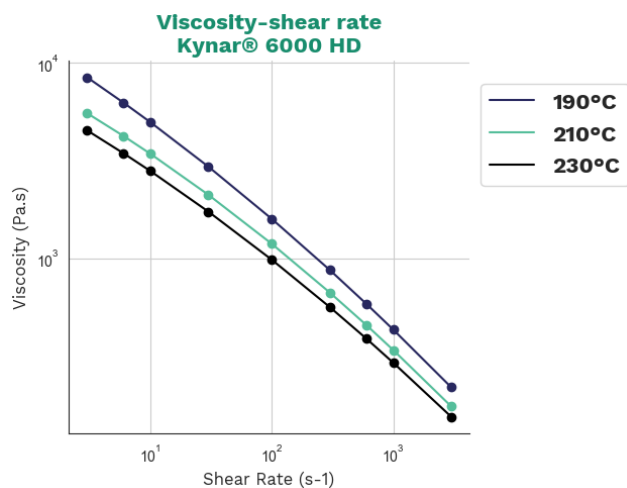
## OTHER PROPERTIES

PROPERTIES	VALUE	TEST STANDARD
Moisture absorption, At equilibrium at 23°C (73°F) / 50%HR	0.015 %	ISO 62
Water absorption, Saturated in water at 23°C (73°F)	0.02 %	ISO 62

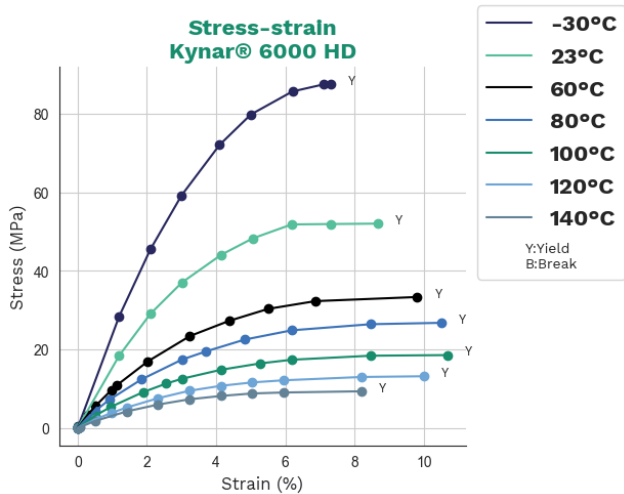
## SPECIAL CHARACTERISTICS

- Flame & smoke

## DIAGRAMS



# KYNAR® 6000 HD



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

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