

## TECHNICAL DATA SHEET

### KYNAR® 370

#### FLUORINATED HOMOPOLYMER PELLET

KYNAR® resins are fluorinated thermoplastic homopolymers. The properties are the same as standard grade: chemical resistance, resistance to UV, low permeation, high purity, excellent mechanical behavior with a higher HDT This grade is especially modified in order to have a reduced mold shrinkage, low thermal expansion factor Moreover, this grade has an increased thermal and electrical conductivity This grade is available as pellet form for injection, extrusion, compression

#### DESIGNATION

PVDF

#### MAIN APPLICATIONS

- Molding

#### DELIVERY FORM

- Pellets

#### TRANSFORMATION PROCESSES

- Injection Molding

## RHEOLOGICAL PROPERTIES

プロパティ	価値	テスト基準
Melt viscosity, 230°C (445°F) at 100 s-1	8 - 13 kPo	ASTM D3835
Shrinkage, Normal (t+24h)	0.7 %	ISO 294-4
Shrinkage, Parallel (t+24h)	0.7 %	ISO 294-4
Melt flow index (MFR), 235°C / 5 kg (455°F / 11 lb)	5 - 17 g/10min	ASTM D1238
Melt volume flow rate (MVR), 230°C / 3.8 kg (445°F / 8.3 lb)	5.8 cm³/10min	ISO 1133

## MECHANICAL PROPERTIES

プロパティ	価値	テスト基準
Tensile modulus, 23°C (73°F)	4135 MPa	ASTM D638
Yield stress, 23°C (73°F)	34.5 - 55.2 MPa	ASTM D638
Yield strain, 23°C (73°F)	0 - 4 %	ASTM D638
Stress at break, 23°C (73°F)	37.9 - 55.2 MPa	ASTM D638
Flexural modulus, 23°C (73°F)	5520 - 6890 MPa	ASTM D790
Compression strength, 23°C (73°F)	138 - 172 MPa	ASTM D695
Izod impact unnotched strength, 23°C (73°F)	0.267 - 0.534 kJ/m2	ASTM D256
Izod impact notched strength, 23°C (73°F)	0.04 - 0.0801 J/m	ASTM D256
Hardness, Shore D	74 - 79	ASTM D2240
Coefficient of friction dynamic vs steel, 23°C (73°F)	0.12	ASTM D1895
Coefficient of friction static vs steel, 23°C (73°F)	0.18	ASTM D1894

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## THERMAL PROPERTIES

プロパティ	価値	テスト基準
Glass transition temperature, 10°C/min	-40 °C	ISO 11357-1/-2
Limiting oxygen index (LOI)	44 %	ASTM D2863
Coefficient of linear thermal expansion, 23°C (73°F)	36 - 45 10E-6 / °K	ASTM D696
Heat deflection temperature, 1.8 MPa	120 °C	ISO 75-1/-2
Heat deflection temperature, 1.8 MPa, 138°C/h	110 - 127 °C	ASTM D648
Heat deflection temperature, 0.45 MPa, 138°C/h	132-149 °C	ASTM D648
Melting temperature, 10°C/min	170 °C	ISO 11357-1/-3

## ELECTRICAL PROPERTIES

プロパティ	価値	テスト基準
Dielectric constant, 1kHz	28.8 - 33.5	ASTM D150
Relative permittivity, 100Hz	33	IEC 60250
Dissipation factor, 100Hz	610 E-4	IEC 60250
Dissipation factor	0.06 - 0.08	ASTM D150

## OTHER PROPERTIES

プロパティ	価値	テスト基準
Specific gravity, 23°C (73°F)	1.84 - 1.88 g/cm <sup>3</sup>	
Water absorption, Saturated in water at 23°C (73°F)	0.02 %	ISO 62

## 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