

TECHNICAL DATA SHEET KYNAR® 6000 HDP

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 HDP 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

プロパティ	価値	テスト基準
Melt volume flow rate (MVR), 230°C / 5 kg (446°F / 11 lb)	6.7 cm ³ /10min	ISO 1133
Melt viscosity, 230°C (445°F) at 100 s-1	1.1 kPo	ASTM D3835
Melt flow index (MFR), 230°C / 5 kg (446°F / 11 lb)	12 g/10min	ISO 1133
Shrinkage, Normal (t+24h)	2 %	ISO 294-4
Shrinkage, Parallel (t+24h)	2 %	ISO 294-4

MECHANICAL PROPERTIES

プロパティ	価値	テスト基準
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 ²	ISO 179 1eU
Charpy unnotched impact strength, -30°C (-22°F)	221 kJ/m ²	ISO 179 1eU
Charpy notched impact strength, 23°C (73°F)	12 kJ/m ²	ISO 179 1eA
Charpy notched impact strength, -30°C (-22°F)	5 kJ/m ²	ISO 179 1eA

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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
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

プロパティ	価値	テスト基準
Dissipation factor, 100Hz	280E-4	IEC 60250
Dissipation factor, 1MHz	2200E-4	IEC 60250
Comparative tracking index	600	IEC 60112
Relative permittivity, 100Hz	9.5	IEC 60250
Relative permittivity, 1MHz	7	IEC 60250

OTHER PROPERTIES

プロパティ	価値	テスト基準
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

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