KYNAR®

TECHNICAL DATA SHEET

KYNAR® 4000 HD

FLUORINATED HOMOPOLYMER PELLET

Kynar® resins are fluorinated thermoplastic homopolymers.

Outstanding characteristics: chemical resistance, resistance to UV, high barrier properties, high purity, good mechanical and thermo-mechanical properties.
Kynar® 4000 HD resin is a standard grade of pellets for injection molding.

TYPE

PVDF

MAIN APPLICATIONS

- hi purity
- cpi - distribution
- tubing
- cpi - stock shape

DELIVERY FORM

- Pellets

RHEOLOGICAL PROPERTIES

PROPERTIES	TYPICAL VALUE	UNIT	TEST STANDARD
Melt flow index (MFR), 230°C / 5 kg (446°F / 11 lb)	14	g/10min	ISO 1133
Melt viscosity, 230°C (446°F) at 100 s-1	13	kPo	ASTM D3835

MECHANICAL PROPERTIES

PROPERTIES	TYPICAL VALUE	UNIT	TEST STANDARD
Tensile modulus		MPa	ISO 527-1/-2
Yield stress	51	MPa	ISO 527-1/-2
Yield strain	9	%	ISO 527-1/-2
Nominal strain at break	50	%	ISO 527-1/-2

THERMAL PROPERTIES

PROPERTIES	TYPICAL VALUE	UNIT	TEST STANDARD
Heat deflection temperature, 1.8 MPa	106	°C	ISO 75-1/-2
Limiting oxygen index (LOI)	80	%	ASTM D2863
Melting temperature, 10°C/min	171	°C	ISO 11357-1/-3

OTHER PROPERTIES

PROPERTIES	TYPICAL VALUE	UNIT	TEST STANDARD
Density, 23°C (73°F)	1.78	g/cm³	ISO 1183-1

KYNAR® 4000 HD

PACKAGING

Available packaging:
- 1000 kg / 2205 lb rigid container
- 25 kg / 55 lb bags

PROCESSING CONDITIONS:

- Typical melt temperature (Min / Recommended / Max) - Injection Molding: 180°C / 210°C / 240°C (355°F / 410°F / 465°F)
- Typical mold temperature - Injection molding: 20-80°C (70-175°F)

SPECIAL CHARACTERISTICS

- Flame & smoke

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