KYNAR®

TECHNICAL DATA SHEET

KYNAR® 6000 HD

FLUORINATED HOMOPOLYMER PELLET

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

TYPE

PVDF

MAIN APPLICATIONS

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

DELIVERY FORM

- Pellets

TRANSFORMATION PROCESSES

- Injection Molding

RHEOLOGICAL PROPERTIES

PROPERTIES	TYPICAL VALUE	UNIT	TEST STANDARD
Melt viscosity, 230°C (446°F) at 100 s-1	11	kPo	ASTM D3835
Shrinkage, normal (t+24h)	2	%	ISO 294-4
Shrinkage, parallel (t+24h)	2	%	ISO 294-4
Melt volume flow rate (MVR), 230°C / 5 kg (446°F / 11 lb)	6.7	cm^3/10min	ISO 1133

MECHANICAL PROPERTIES

PROPERTIES	TYPICAL VALUE	UNIT	TEST STANDARD
Tensile modulus, 23°C (73°F)	2300	MPa	ISO 527-1/-2
Yield stress, 23°C (73°F)	52	MPa	ISO 527-1/-2
Yield strain, 23°C (73°F)	9	%	ISO 527-1/-2
Nominal strain at break, 23°C (73°F)	40	%	ISO 527-1/-2
Charpy unnotched impact strength, 23°C (73°F)	227	kJ/m2	ISO 179 1eU
Charpy unnotched impact strength, -30°C (-22°F)	221	kJ/m2	ISO 179 1eU
Charpy notched impact strength, 23°C (73°F)	12	kJ/m2	ISO 179 1eA
Charpy notched impact strength, -30°C (-22°F)	5	kJ/m2	ISO 179 1eA

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THERMAL PROPERTIES

PROPERTIES	TYPICAL VALUE	UNIT	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	TYPICAL VALUE	UNIT	TEST STANDARD
Comparative tracking index	600		IEC 60112
Relative permittivity, 100Hz	9.5		IEC 62631-2-1
Relative permittivity, 1MHz	7		IEC 62631-2-1
Dissipation factor, 100Hz	280	E-4	IEC 62631-2-1
Dissipation factor, 1MHz	2200	E-4	IEC 62631-2-1

OTHER PROPERTIES

PROPERTIES	TYPICAL VALUE	UNIT	TEST STANDARD
Water absorption, at equilibrium at 23°C (73°F) / Immersion	0.02	%	ISO 62

PACKAGING

Available packaging:
- 1000 kg big bag
- 25 kg / 55 lb bags

PROCESSING CONDITIONS:

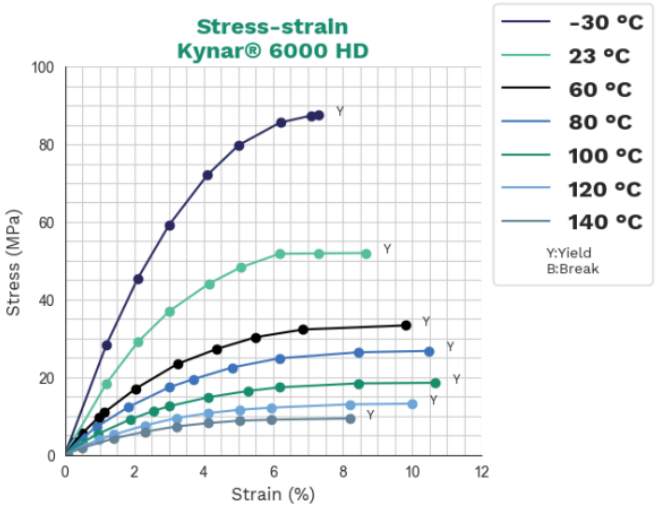
- Typical melt temperature (Min / Recommended / Max) - Injection Molding: 180°C / 210°C / 240°C (355°F / 410°F / 465°F)
- Typical mold temperature - Injection molding: 20-80°C (70-175°F)

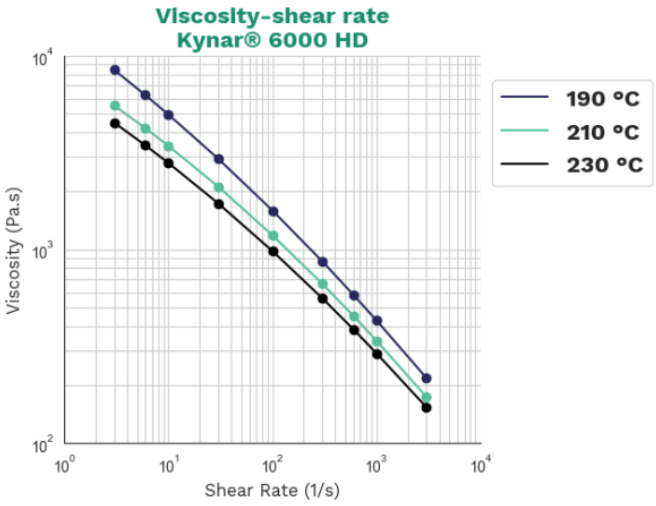
SPECIAL CHARACTERISTICS

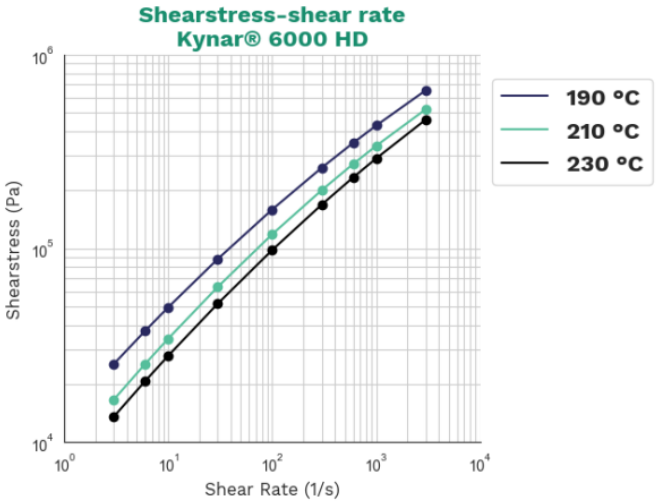
- Flame & smoke

DIAGRAMS

KYNAR® 6000 HD







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