

KYNAR® 6000 HD

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.

MAIN CHARACTERISTICS

PROPERTIES	VALUE	UNIT	TEST STANDARD
RHEOLOGICAL PROPERTIES			
Melt Volume-Flow Rate	6.7	cm ³ /10min	ISO 1133
Temperature	230	°C	-
Load	5	kg	-
Molding Shrinkage, parallel	2.0	%	ISO 294-4, 2577
Molding Shrinkage, normal	2.0	%	ISO 294-4, 2577
Melt Viscosity, 230°C, 100 s-l	1.1	kPoise	ASTM D3835
MECHANICAL PROPERTIES			
Tensile Modulus	2300	MPa	ISO 527-1/-2
Yield stress	52	MPa	ISO 527-1/-2
Yield strain	9	%	ISO 527-1/-2
Nominal Strain at Break	40	%	ISO 527-1/-2
Charpy Impact Strength, +23°C	227	kJ/m ²	ISO 179/1eU
Charpy Impact Strength, -30°C	221	kJ/m ²	ISO 179/1eU
Charpy Notched Impact Strength, +23°C	12	kJ/m ²	ISO 179/1eA
Charpy Notched Impact Strength, -30°C	5	kJ/m ²	ISO 179/1eA
THERMAL PROPERTIES			
Melting Temperature, 10°C/min	171	°C	ISO 11357-1/-3
Glass Transition Temperature, 10°C/min	-40	°C	ISO 11357-1/-2
Temp. of Deflection Under Load, 1.80 MPa	108	°C	ISO 75-1/-2
Vicat Softening Temperature, 50°C/h 50N	140	°C	ISO 306
Coeff. of Linear Thermal Expansion, parallel	150	E-6/K	ISO 11359-1/-2
Burning Behav. at 1.5 mm Nominal Thickness	V-0	class	IEC 60695-11-10
Thickness Tested	1.6	mm	-
Burning Behav. at Thickness h	V-0	class	IEC 60695-11-10
Thickness Tested	0.8	mm	-
Oxygen Index	80	%	ISO 4589-1/-2
Limiting Oxygen Index, 73 °F	80	%	ASTM D2863
ELECTRICAL PROPERTIES			
Relative Permittivity, 100Hz	9.5	-	IEC 60250
Relative Permittivity, 1MHz	7	-	IEC 60250

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KYNAR® 6000 HD

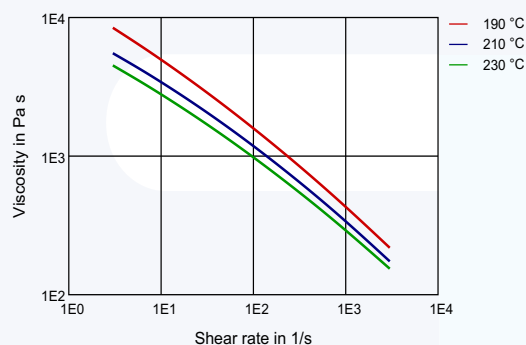
Dissipation Factor, 100Hz	280	E-4	IEC 60250
Dissipation Factor, 1MHz	2200	E-4	IEC 60250
Volume Resistivity	1E10	Ohm*m	IEC 60093
Surface Resistivity	1.5E14	Ohm	IEC 60093
Dielectric (Electric) Strength	24	kV/mm	IEC 60243-1
Comparative Tracking Index	600	-	IEC 60112
OTHER PROPERTIES			
Water Absorption	0.02	%	Sim. to ISO 62
Humidity Absorption	0.015	%	Sim. to ISO 62
Density	1770	kg/m ³	ISO 1183

MAIN APPLICATIONS:

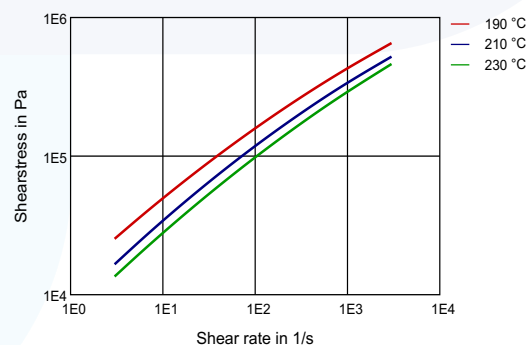
- corrosion protection in the chemical industry
- wire and cable
- coating (painting, co-extrusion)
- off shore

DIAGRAMS

VISCOSITY-SHEAR RATE



SHEARSTRESS-SHEAR RATE



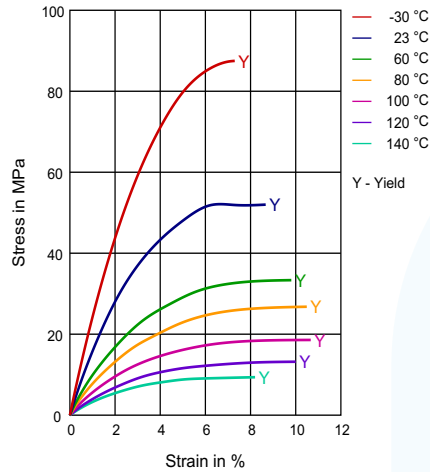
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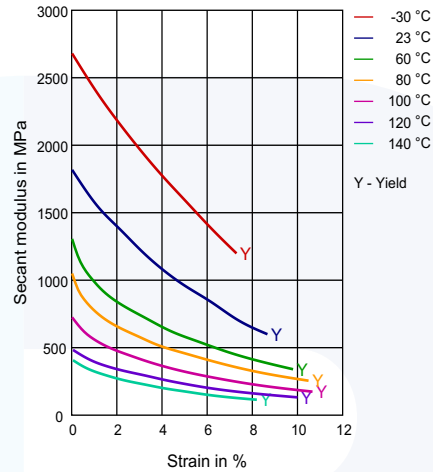
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KYNAR® 6000 HD

STRESS-STRAIN



SECANT MODULUS-STRAIN



PROCESSING

Injection Molding, Film Extrusion, Profile Extrusion, Sheet Extrusion, Casting, Thermoforming

DELIVERY FORM

Pellets, Granules

SPECIAL CHARACTERISTICS

Heat Stabilized, Light Stabilized

REGIONAL AVAILABILITY

North America, Europe, Asia Pacific, South and Central America, Near East/Africa

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