

KYNAR FLEX® 2750-01

Kynar Flex® resins are fluorinated thermoplastic copolymers.

Outstanding characteristics: chemical resistance, imperviousness to UV, barrier properties and high purity.

Kynar Flex® 2750-01 resin is a grade of granules to be used where maximum flexibility or impact strength is required.

A powder form is available as Kynar Flex® 2751 resin.

MAIN CHARACTERISTICS

PROPERTIES	VALUE	UNIT	TEST STANDARD
RHEOLOGICAL PROPERTIES			
Melt Volume-Flow Rate	1.9	cm ³ /10min	ISO 1133
Temperature	230	°C	-
Load	5	kg	-
Melt Flow Rate	4 - 14	g/10min	ASTM D1238
Temperature	230	°C	-
Load	12.5	kg	-
Melt Viscosity, 230°C, 100 s-1	20 - 25	kPoise	ASTM D3835
MECHANICAL PROPERTIES			
Tensile Modulus	526	MPa	ISO 527-1/-2
Tensile Modulus, 73 °F	276 - 448	MPa	ASTM D638
Yield stress	21	MPa	ISO 527-1/-2
Tensile Strength at Yield, 73 °F	13.8 - 21.4	MPa	ASTM D638
Yield strain	15	%	ISO 527-1/-2
Elongation at Yield, 73 °F	15 - 25	%	ASTM D638
Nominal Strain at Break	> 50	%	ISO 527-1/-2
Tensile Strength at Break, 73 °F	20 - 27.6	MPa	ASTM D638
Elongation at Break, 73 °F	200 - 400	%	ASTM D638
Taber Abrasion, CS 17 1000g:pad	21 - 25	mg/1000 cycles	ASTM-G195-13A
Hardness, Shore D, 73 °F	57 - 62	-	ASTM D2240
Flexural Modulus, 73 °F	276 - 414	MPa	ASTM D790
Flexural Strength @ 5% Strain, 73 °F	13.8 - 24.1	MPa	ASTM D790
Compressive Strength, 73 °F	24.1 - 31	MPa	ASTM D695
Charpy Notched Impact Strength, +23°C	No Break	kJ/m ²	ISO 179/1eA
Notched Impact Strength, 73 °F	No Break	kJ/m	ASTM D256
Coefficient of Friction, Static vs. Steel, 73 °F	0.55	-	ASTM D1894
Coefficient of Friction, Dynamic vs. Steel, 73 °F	0.54	-	ASTM D1894
THERMAL PROPERTIES			
Melting Temperature, 10°C/min	134	°C	ISO 11357-1/-3
Melting Point, 73 °F	130 - 138	°C	ASTM D3418

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Glass Transition Temperature, 10°C/min	-40	°C	ISO 11357-1/-2
Glass Transition Temperature (T _g)	-40	°C	ASTM D7028
Temp. of Deflection Under Load, 1.80 MPa	43	°C	ISO 75-1/-2
Heat Deflection Temperature, 264 Psi, 248 °F/hr	35 - 51.7	°C	ASTM D648
Temp. of Deflection Under Load, 0.45 MPa	57	°C	ISO 75-1/-2
Heat Deflection Temperature, 66 Psi, 248 °F/hr	48.9 - 65.6	°C	ASTM D648
Vicat Softening Temperature, 50°C/h 50N	61	°C	ISO 306
Coeff. of Linear Thermal Expansion, parallel	177	E-6/K	ISO 11359-1/-2
Coefficient of Thermal Expansion, 73 °F	16.2 - 21.6	10E-5/°C	ASTM D696
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	49	%	ISO 4589-1/-2
Limiting Oxygen Index, 73 °F	43	%	ASTM D2863
Thermal Conductivity	0.144 - 0.18	W/(m K)	ASTM D433
Specific Heat	745 - 958	J/(kg K)	DSC
Thermal Decomposition TGA, in air	375	°C	1% wt. loss
Thermal Decomposition TGA, in nitrogen	410	°C	1% wt. loss
ELECTRICAL PROPERTIES			
Relative Permittivity, 100Hz	11.5	-	IEC 60250
Relative Permittivity, 1MHz	7	-	IEC 60250
Dielectric Constant, 1 kHz	3.8 - 12.1	-	ASTM D150
Dissipation Factor, 100Hz	240	E-4	IEC 60250
Dissipation Factor, 100 kHz	0.02 - 0.24	-	ASTM D150
Volume Resistivity	2E12	Ohm*m	IEC 60093
Volume Resistivity, DC 68 °F, 65% R.H.	2E14	Ohm*cm	ASTM D257
Surface Resistivity, 73 °F	4.8E11 - 5.1E11	Ohm per square	ASTM D257
Dielectric (Electric) Strength, 73°F	1.1 - 1.3	kV/mil	ASTM D149
OTHER PROPERTIES			
Water Absorption	0.03	%	Sim. to ISO 62
Water Absorption	0.03 - 0.06	%	ASTM D570
Density	1780	kg/m³	ISO 1183
Specific Gravity, 73 °F	1.78 - 1.8	-	ASTM D792
OPTICAL PROPERTIES			
Refractive Index @ sodium D line	1.41	-	ASTM D542

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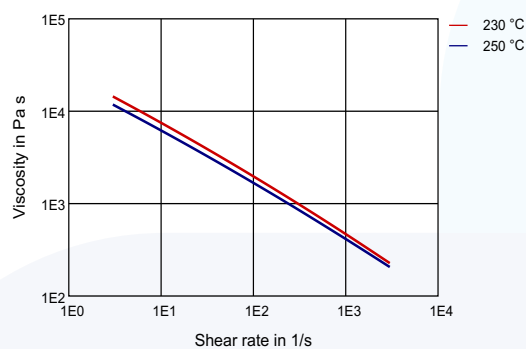
KYNAR FLEX® 2750-01

MAIN APPLICATIONS:

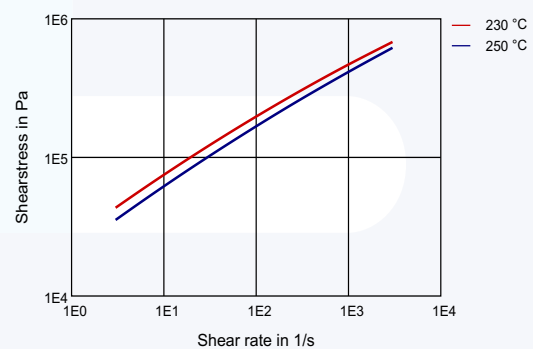
- flexible tubing
- wire and cable
- corrosion protection in the chemical industry
- off-shore

DIAGRAMS

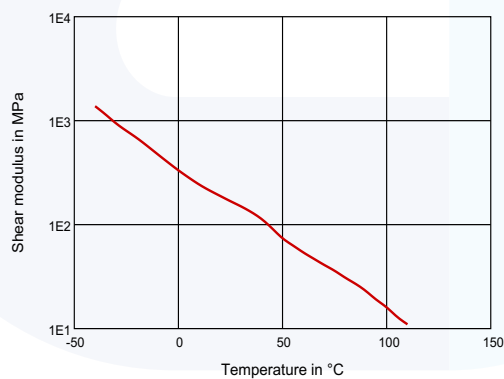
VISCOSITY-SHEAR RATE



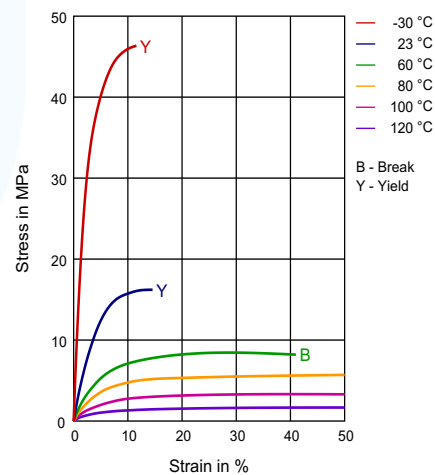
SHEARSTRESS-SHEAR RATE



DYNAMIC SHEAR MODULUS-TEMPERATURE



STRESS-STRAIN



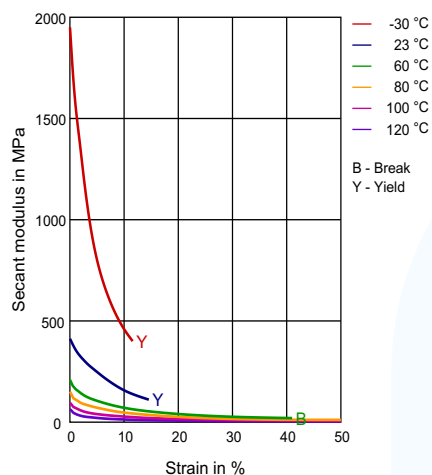
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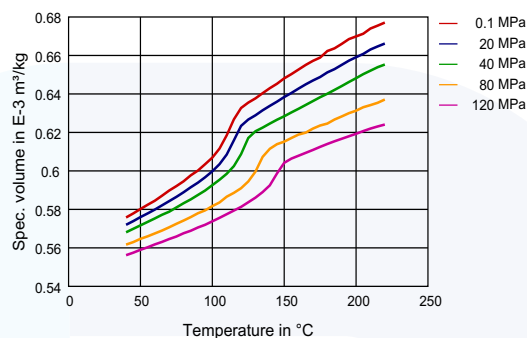
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SECANT MODULUS-STRAIN



SPECIFIC VOLUME-TEMPERATURE (PVT)



PROCESSING

Injection Molding, Sheet Extrusion, Other Extrusion, Transfer Molding

DELIVERY FORM

Pellets

SPECIAL CHARACTERISTICS

Heat Stabilized, Light Stabilized

REGIONAL AVAILABILITY

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

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