

KYNAR FLEX® 2751-00

Kynar Flex® resins are fluorinated thermoplastic copolymers.

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

Kynar Flex® 2751-00 resin is a powder grade where maximum flexibility or impact strength is required.

MAIN CHARACTERISTICS

PROPERTIES	VALUE	UNIT	TEST STANDARD
RHEOLOGICAL PROPERTIES			
Melt Volume-Flow Rate	1.9	cm³/10min	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	450	MPa	ISO 527-1/-2
Tensile Modulus, 73 °F	552 - 896	MPa	ASTM D638
Yield stress	21	MPa	ISO 527-1/-2
Tensile Strength at Yield, 73 °F	20 - 34.5	MPa	ASTM D638
Yield strain	15	%	ISO 527-1/-2
Elongation at Yield, 73 °F	10 - 20	%	ASTM D638
Nominal Strain at Break	>50	%	ISO 527-1/-2
Tensile Strength at Break, 73 °F	17.2 - 34.5	MPa	ASTM D638
Elongation at Break, 73 °F	100 - 300	%	ASTM D638
Taber Abrasion, CS 17 1000g:pad	16 - 19	mg/1000 cycles	ASTM-G195-13A
Hardness, Shore D, 73 °F	60 - 70	-	ASTM D2240
Flexural Modulus, 73 °F	483 - 758	MPa	ASTM D790
Flexural Strength @ 5% Strain, 73 °F	20.7 - 34.5	MPa	ASTM D790
Compressive Strength, 73 °F	31 - 41.4	MPa	ASTM D695
Charpy Notched Impact Strength, +23°C	No Break	kJ/m²	ISO 179/1eA
Unnotched Impact Strength, 73 °F	No Break	kJ/m	ASTM D256
Notched Impact Strength, 73 °F	0.534 - 1.07	kJ/m	ASTM D256
Coefficient of Friction, Static vs. Steel, 73 °F	0.33	-	ASTM D1894
Coefficient of Friction, Dynamic vs. Steel, 73 °F	0.33	-	ASTM D1894
THERMAL PROPERTIES			
Melting Temperature, 10°C/min	134	°C	ISO 11357-1/-3
Melting Point, 73 °F	140 - 145	°C	ASTM D3418

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Glass Transition Temperature, 10°C/min	-40	°C	ISO 11357-1/-2
Glass Transition Temperature (T _g)	-41.1 - -39.4	°C	ASTM D7028
Temp. of Deflection Under Load, 1.80 MPa	40	°C	ISO 75-1/-2
Heat Deflection Temperature, 264 Psi, 248 °F/hr	40 - 55	°C	ASTM D648
Heat Deflection Temperature, 66 Psi, 248 °F/hr	60 - 75	°C	ASTM D648
Coefficient of Thermal Expansion, 73 °F	12.6 - 18.5	10E-5/°C	ASTM D696
Burning Behav. at Thickness h	V-0	class	IEC 60695-11-10
Thickness Tested	0.8	mm	-
Oxygen Index	43	%	ISO 4589-1/-2
Limiting Oxygen Index, 73 °F	42	%	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			
Dielectric Constant, 1 kHz	3.5 - 10.6	-	ASTM D150
Dissipation Factor, 100 kHz	0.02 - 0.21	-	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	5.1E11 - 5.3E11	Ohm per square	ASTM D257
Dielectric (Electric) Strength, 73°F	1.3 - 1.5	kV/mil	ASTM D149
OTHER PROPERTIES			
Water Absorption	0.03 - 0.05	%	ASTM D570
Specific Gravity, 73 °F	1.7 - 1.8	-	ASTM D792
OPTICAL PROPERTIES			
Refractive Index @ sodium D line	1.41	-	ASTM D542

MAIN APPLICATIONS:

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

REGIONAL AVAILABILITY

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

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KYNAR FLEX®
BY **ARKEMA**

Arkema Inc. – Technical Polymers
900 First Avenue
King of Prussia, PA 19406
Tel.: +1 610 205 7000
Fax: +1 610 205 7497
arkema-america.com

Headquarters: Arkema France
420, rue d'Estienne d'Orves
92705 Colombes Cedex – France
Tel.: +33 1 49 00 80 80
Fax: +33 1 49 00 83 96
arkema.com

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