

KYNAR FLEX® 3030-10

Kynar Flex® resins are fluorinated thermoplastic copolymers.
Kynar Flex® 3030-10 is available in **powder** form: **Kynar Flex® 3031-10**.

MAIN CHARACTERISTICS

PROPERTIES	VALUE	UNIT	TEST STANDARD
RHEOLOGICAL PROPERTIES			
Melt Flow Rate	8 - 25	g/10min	ASTM D1238
Temperature	230	°C	-
Load	3.8	kg	-
Melt Viscosity, 230°C, 100 s-1	7 - 13	kPoise	ASTM D3835
MECHANICAL PROPERTIES			
Tensile Modulus	283	MPa	ISO 527-1/-2
Tensile Modulus, 73 °F	207 - 345	MPa	ASTM D638
Yield stress	12	MPa	ISO 527-1/-2
Tensile Strength at Yield, 73 °F	12.4 - 16.5	MPa	ASTM D638
Yield strain	30	%	ISO 527-1/-2
Elongation at Yield, 73 °F	25 - 40	%	ASTM D638
Nominal Strain at Break	> 50	%	ISO 527-1/-2
Tensile Strength at Break, 73 °F	19.3 - 24.8	MPa	ASTM D638
Elongation at Break, 73 °F	≥ 500	%	ASTM D638
Taber Abrasion, CS 17 1000g:pad	28 - 33	mg/1000 cycles	ASTM-G195-13A
Hardness, Shore D, 73 °F	45 - 55	-	ASTM D2240
Flexural Modulus, 73 °F	241 - 379	MPa	ASTM D790
Charpy Notched Impact Strength, +23°C	No Break	kJ/m²	ISO 179/1eA
Notched Impact Strength, 73 °F	No Break	kJ/m	ASTM D256
THERMAL PROPERTIES			
Melting Temperature, 10°C/min	164	°C	ISO 11357-1/-3
Melting Point, 73 °F	160 - 168	°C	ASTM D3418
Glass Transition Temperature, 10°C/min	-42	°C	ISO 11357-1/-2
Glass Transition Temperature (Tg)	-40	°C	ASTM D7028
Coefficient of Thermal Expansion, 73 °F	15.3 - 19.4	10E-5/°C	ASTM D696
Burning Behav. at Thickness h	V-0	class	IEC 60695-11-10
Thickness Tested	0.8	mm	-
Oxygen Index	45	%	ISO 4589-1/-2
Limiting Oxygen Index, 73 °F	42	%	ASTM D2863
ELECTRICAL PROPERTIES			
Volume Resistivity	2E12	Ohm*m	IEC 60093
Surface Resistivity, 73 °F	7.6E11 - 7.8E11	Ohm per square	ASTM D257

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SDC/11-2018

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Dielectric (Electric) Strength, 73°F	1 - 1.2	kV/mil	ASTM D149
OTHER PROPERTIES			
Water Absorption	≤0.05	%	ASTM D570
Specific Gravity, 73 °F	1.78 - 1.82	-	ASTM D792

REGIONAL AVAILABILITY

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

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