

# KYNAR FLEX<sup>®</sup>

## 3030-10

Kynar Flex<sup>®</sup> resins are fluorinated thermoplastic copolymers.

PROPERTIES	VALUE	UNIT	TEST STANDARD
<b>RHEOLOGICAL PROPERTIES</b>			
Melt Flow Rate	8 - 25	g/10min	ASTM D1238
Temperature	230	°C	-
Load	3.8	kg	-
Melt Viscosity, 230°C, 100 s <sup>-1</sup>	5 - 12	kPoise	ASTM D3835
<b>MECHANICAL PROPERTIES</b>			
Tensile Modulus	283 41000	MPa psi	ISO 527-1/-2
Tensile Modulus, 73 °F	207 - 345 30000 - 50000	MPa psi	ASTM D638
Yield Stress	12 1740	MPa psi	ISO 527-1/-2
Tensile Strength at Yield, 73 °F	12.4 - 16.5 1800 - 2400	MPa psi	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 2800 - 3600	MPa psi	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 35000 - 55000	MPa psi	ASTM D790
Charpy Notched Impact Strength, +23°C	No Break	kJ/m <sup>2</sup>	ISO 179/1eA
Notched Impact Strength, 73 °F	No Break	kJ/m	ASTM D256
<b>THERMAL PROPERTIES</b>			
Melting Temperature, 10°C/min	164	°C	ISO 11357-1/-3
Melting Point	162 - 170	°C	ASTM D3418
Glass Transition Temperature, 10°C/min	-42 -43.6	°C °F	ISO 11357-1/-2

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 Source: automatically generated TDS from Material Database on 12-08-2024

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Glass Transition Temperature (Tg)	-40	°C	ASTM D7028
Coefficient of Thermal Expansion, 73 °F	15.3 - 19.4	10E-5/	ASTM D696
	8.5 - 10.8	10E-5/	
Burning Behav. at Thickness h	V-0	°C class	IEC 60695-11-10
Thickness Tested	0.8	mm	-
	0.0315	in	
Oxygen Index	45	%	ISO 4589-1/-2
Limiting Oxygen Index	42	%	ASTM D2863
<b>ELECTRICAL PROPERTIES</b>			
Volume Resistivity	2E12	Ohm* m	IEC 62631-3-1
Surface Resistivity, 73 °F	7.6E11 - 7.8E11	Ohm per square	ASTM D257
Dielectric (Electric) Strength, 73°F	1 - 1.2	kV/mil	ASTM D149
<b>OTHER PROPERTIES</b>			
Water Absorption	≤0.05	%	ASTM D570
Specific Gravity, 73 °F	1.78 - 1.82	-	ASTM D792

<b>REGIONAL AVAILABILITY</b>	Headquarters:
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