

KYNAR FLEX®

3030-15

Kynar Flex® 3030-15 resin is a copolymer of vinylidene fluoride and hexafluoropropylene specifically designed for flexible plenum cables and tubing.

Its main characteristics are:

- Very high flexibility
- High melting point
- Excellent low temperature impact resistance
- Plenum rated

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	290	MPa	ISO 527-1/-2
	42100	psi	
Tensile Modulus, 73 °F	207 - 345	MPa	ASTM D638
	30000 - 50000	psi	
Yield Stress	12	MPa	ISO 527-1/-2
	1740	psi	
Tensile Strength at Yield, 73 °F	12.4 - 16.5	MPa	ASTM D638
	1800 - 2400	psi	
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
	2800 - 3600	psi	
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
	35000 - 55000	psi	
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
THERMAL PROPERTIES			

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

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Melting Temperature, 10°C/min	164	°C	ISO 11357-1/-3
Melting Point	160 - 168	°C	ASTM D3418
Glass Transition Temperature, 10°C/min	-40	°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
	8.5 - 10.8	10E-5/ °F	
Burning Behav. at Thickness h	V-0	class	IEC 60695-11-10
Thickness Tested	0.8	mm	-
	0.0315	in	
Oxygen Index	90	%	ISO 4589-1/-2
Limiting Oxygen Index	≥75	%	ASTM D2863
ELECTRICAL PROPERTIES			
Volume Resistivity	2E12	Ohm* m	IEC 62631-3-1
Surface Resistivity, 73 °F	7.6E11 - 7.9E11	Ohm per square	ASTM D257
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	
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