KYNAR FLEX®
3030-50

Kynar Flex® 3030-50 resin is a copolymer of vinylidene fluoride and hexafluoropropylene specifically designed for cable, tubing and heat shrink tubing applications.

Characteristics:
- Excellent crosslink efficiency
- Very high flexibility
- High melting point
- Excellent low temperature impact resistance

A powder form is also available: **Kynar Flex® 3031-50**.

PROPERTIES	VALUE	UNIT	TEST STANDARD
RHEOLOGICAL PROPERTIES			
Melt Flow Rate	2.5 - 7.5	g/10min	ASTM D1238
Temperature	230	°C	-
Load	12.5	kg	-
Melt Viscosity, 230°C, 100 s^{-1}	21 - 30	kPoise	ASTM D3835
MECHANICAL PROPERTIES			
Tensile Modulus, 73 °F	207 - 345	MPa	ASTM D638
	30000 - 50000	psi	
Tensile Strength at Yield, 73 °F	11.7 - 15.9	MPa	ASTM D638
	1700 - 2300	psi	
Elongation at Yield, 73 °F	25 - 40	%	ASTM D638
Tensile Strength at Break, 73 °F	18.6 - 24.1	MPa	ASTM D638
	2700 - 3500	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	50 - 60	-	ASTM D2240
Flexural Modulus, 73 °F	248 - 303	MPa	ASTM D790
	36000 - 44000	psi	
Notched Impact Strength, 73 °F	No Break	kJ/m	ASTM D256
THERMAL PROPERTIES			
Melting Point	160 - 168	°C	ASTM D3418
Glass Transition Temperature (Tg)	-40	°C	ASTM D7028
Temperature Rating	150	°C	UL RTI
	302	°F	

ARKEMA

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Coefficient of Thermal Expansion, 73 °F	15.3 - 19.4 8.5 - 10.8	10E-5/°C 10E-5/°F	ASTM D696
Limiting Oxygen Index	≥43	%	ASTM D2863
ELECTRICAL PROPERTIES			
Volume Resistivity, DC 68 °F, 65% R.H.	7.8E13 - 8E13	Ohm*cm	ASTM D257
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

PROCESSING

Profile Extrusion, Other Extrusion

DELIVERY FORM

Pellets

REGIONAL AVAILABILITY

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

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