

KYNAR FLEX®

3050-52

Kynar Flex® 3050-52 resin is a copolymer of vinylidene fluoride and hexafluoropropylene specifically designed for flexible plenum cables needing low temperature impact properties down to -40°C.

Its main characteristics are:

- Very high flexibility
- High melting point
- Excellent low temperature impact resistance at -40°C

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 - 26	kPoise	ASTM D3835
MECHANICAL PROPERTIES			
Tensile Modulus	550 79800	MPa psi	ISO 527-1/-2
Tensile Modulus, 73 °F	552 - 965 80000 - 140000	MPa psi	ASTM D638
Yield stress	19 2760	MPa psi	ISO 527-1/-2
Tensile Strength at Yield, 73 °F	17.2 - 41.4 2500 - 6000	MPa psi	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	23.4 - 27.6 3400 - 4000	MPa psi	ASTM D638
Elongation at Break, 73 °F	250 - 350	%	ASTM D638
Hardness, Shore D, 73 °F	65 - 70	-	ASTM D2240
Flexural Modulus, 73 °F	483 - 621 70000 - 90000	MPa psi	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	167	°C	ISO 11357-1/-3
Melting Point, 73 °F	160 - 168	°C	ASTM D3418
Burning Behav. at Thickness h	V-0	class	IEC 60695-11-10

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Yellow Card available	yes	-	-
Limiting Oxygen Index, 73 °F	42	%	ASTM D2863
ELECTRICAL PROPERTIES			
Dielectric (Electric) Strength, 73°F	1.3 - 1.5	kV/mil	ASTM D149
OTHER PROPERTIES			
Water Absorption	≤0.05	%	ASTM D570
Specific Gravity, 73 °F	1.61 - 1.67	-	ASTM D792
Density of melt	1650	kg/m ³	-
	103	lb/ft ³	

PROCESSING

Other Extrusion

DELIVERY FORM

Pellets

REGIONAL AVAILABILITY

North America, Europe, Asia Pacific