

Kynar Flex® 2950-05

PVDF

Kynar Flex® 2950-05 resin

Kynar Flex® resins are fluorinated thermoplastic copolymers.

Kynar Flex® 2950-05 resin is a pelletized, semi-crystalline VF2 based copolymer. It has been designed for wire and cable applications requiring high flexibility and improved resistance to impact. The low molecular weight allows extrusion conditions that reduce jacket shrink back over fiber optic constructions.

Additional characteristics:

- Excellent thermal stability
- Excellent abrasion resistance
- Excellent chemical resistance
- Impervious to UV degradation
- High Limiting Oxygen Index
- Extremely low smoke emission characteristics

Meets UL910 requirements

Rheological properties

	Value	Unit	Test Standard
Melt volume-flow rate, MVR	11.5	cm ³ /10min	ISO 1133
Temperature	232	°C	-
Load	3.8	kg	-

Mechanical properties

	Value	Unit	Test Standard
Tensile Modulus	387	MPa	ISO 527-1/-2
Yield stress	17	MPa	ISO 527-1/-2
Yield strain	18	%	ISO 527-1/-2
Nominal strain at break	>50	%	ISO 527-1/-2
Charpy notched impact strength, +23°C	N	kJ/m ²	ISO 179/1eA

Thermal properties

	Value	Unit	Test Standard
Melting temperature, 10°C/min	134	°C	ISO 11357-1/-3
Glass transition temperature, 10°C/min	-34	°C	ISO 11357-1/-2
Temp. of deflection under load, 1.80 MPa	43	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	57	°C	ISO 75-1/-2
Burning Behav. at 1.5 mm nom. thickn.	V-0	class	IEC 60695-11-10
Thickness tested	1.5	mm	-
Yellow Card available	yes	-	-
Burning Behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	1.5	mm	-
Oxygen index	95	%	ISO 4589-1/-2

Electrical properties

Value	Unit	Test Standard
-------	------	---------------

Kynar Flex® 2950-05

PVDF

Relative permittivity, 100Hz	7.05	-	IEC 60250
Dissipation factor, 100Hz	0.12	E-4	IEC 60250
Volume resistivity	2E12	Ohm*m	IEC 60093
Electric strength	1.4	kV/mm	IEC 60243-1

Other properties	Value	Unit	Test Standard
Water absorption	0.03	%	Sim. to ISO 62
Density	1770	kg/m ³	ISO 1183

Characteristics

Regional Availability

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