KYNAR FLEX®

TECHNICAL DATA SHEET

KYNAR FLEX® 3030-10

FLUORINATED COPOLYMER PELLET

KYNAR FLEX® resins are fluorinated thermoplastic copolymers. Electronics and Electrical - Automotive Cables, Foamed PVDF Cable Jacketing, Performance Wire, PVDF Cable Jacketing, Wire and Cables KYNAR FLEX® 3030-10 resin is a copolymer of vinylidene fluoride and hexafluoropropylene specifically designed for automobile cables.

TYPE

PVDF

MAIN APPLICATIONS

- plenum conduit
- plenum cable

DELIVERY FORM

- Pellets

RHEOLOGICAL PROPERTIES

PROPERTIES	TYPICAL VALUE	UNIT	TEST STANDARD
Melt viscosity, 230°C (446°F) at 100 s-1	5 - 12	kPo	ASTM D3835
Melt flow index (MFR), 230°C / 5 kg (446°F / 11 lb)	8 - 25	g/10min	ASTM D1238

MECHANICAL PROPERTIES

PROPERTIES	TYPICAL VALUE	UNIT	TEST STANDARD
Tensile modulus, 23°C (73°F)	283	MPa	ASTM D638
Yield stress, 23°C (73°F)	12.4 - 16.5	MPa	ASTM D638
Yield strain, 23°C (73°F)	30	%	ISO 527-1/-2
Stress at break, 23°C (73°F)	19.3 - 24.8	MPa	ASTM D638
Nominal strain at break, 23°C (73°F)	>50	%	ISO 527-1/-2
Flexural modulus, 23°C (73°F)	241 - 379	MPa	ASTM D790
Izod impact notched strength, 23°C (73°F)	No Break		ASTM D256
Charpy notched impact strength, 23°C (73°F)	No Break		ISO 179 1eA
Hardness, shore D	45 - 55		ASTM D2240
Abrasion resistance, wheel CS 17, load 1 kg, 1000 cycles	28 - 33	mg	ASTM G195-13A

THERMAL PROPERTIES

PROPERTIES	TYPICAL VALUE	UNIT	TEST STANDARD
Glass transition temperature, 10°C/min	-42	°C	ISO 11357-1/-2
Limiting oxygen index (LOI)	42	%	ASTM D2863
Coefficient of linear thermal expansion, 23°C (73°F)	153 - 194	10E-6 / °K	ASTM D696
Melting temperature, 10°C/min	164	°C	ISO 11357-1/-3

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ELECTRICAL PROPERTIES

PROPERTIES	TYPICAL VALUE	UNIT	TEST STANDARD
Surface resistivity, 23°C (73,4°F)	7.6E+11 - 7.8E+11	ohm/sq	ASTM D257
Dielectric strength, 23°C (73,4°F)	1 - 1.2	kV/mm	ASTM D149

OTHER PROPERTIES

PROPERTIES	TYPICAL VALUE	UNIT	TEST STANDARD
Density, 23°C (73°F)	1.78 - 1.82	g/cm³	ISO 1183-1

PACKAGING

Available packaging:
- 25 kg / 55 lb rigid container
- 680 kg /1500 lb rigid container

SPECIAL CHARACTERISTICS

- Flame & smoke

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