

TECHNICAL DATA SHEET

KYNAR FLEX® 3030-10

FLUORINATED COPOLYMER PELLETT

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.

DESIGNATION

PVDF

MAIN APPLICATIONS

- Plenum Conduit
- Plenum Cable

DELIVERY FORM

- Pellets

RHEOLOGICAL PROPERTIES

PROPERTIES	VALUE	TEST STANDARD
Melt viscosity, 230°C (445°F) at 100 s-1	5 - 12 kPo	ASTM D3835
Melt flow index (MFR), 235°C / 5 kg (455°F / 11 lb)	8 - 25 g/10min	ASTM D1238

MECHANICAL PROPERTIES

PROPERTIES	VALUE	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), 50 mm/min	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 mm/min	>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	VALUE	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	VALUE	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	VALUE	TEST STANDARD
Specific gravity, 23°C (73°F)	1.78 - 1.82 g/cm ³	
Water absorption, Saturated in water at 23°C (73°F)	0.05 %	ASTM D570

SPECIAL CHARACTERISTICS

- Flame & smoke

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