

TECHNICAL DATA SHEET

KYNAR FLEX® 2751-10 POWDER

FLUORINATED COPOLYMER POWDER

Kynar Flex® resins are fluorinated thermoplastic copolymers.
Outstanding characteristics: chemical resistance, imperviousness to UV, barrier properties and high purity.
Kynar Flex® 2751-00 resin is a powder grade where maximum flexibility or impact strength is required.

DESIGNATION

PVDF

DELIVERY FORM

- Powder

RHEOLOGICAL PROPERTIES

PROPERTIES	VALUE	TEST STANDARD
Melt volume flow rate (MVR), 230°C / 5 kg (446°F / 11 lb)	1.9 cm ³ /10min	ISO 1133
Melt flow index (MFR), 230°C / 12.5 kg (445°F / 27.5 lb)	4 - 14 g/10min	ASTM D1238
Melt viscosity, 230°C (445°F) at 100 s ⁻¹	20 - 25 kPo	ASTM D3835

MECHANICAL PROPERTIES

PROPERTIES	VALUE	TEST STANDARD
Tensile modulus	450 MPa	ISO 527-1/-2
Tensile modulus, 23°C (73°F)	552-896 MPa	ASTM D638
Yield stress	21 MPa	ISO 527-1/-2
Yield strain	15 %	ISO 527-1/-2
Nominal strain at break	> 50 %	ISO 527-1/-2
Flexural modulus, 23°C (73°F)	483 - 758 MPa	ASTM D790
Compression strength, 23°C (73°F)	31,0 - 41,4 MPa	ASTM D695
Hardness, Shore D, 23°C (73°F)	60-70	ASTM D790
Charpy notched impact strength (XY axis), 23°C (73°F)	NO BREAK kJ/m ²	ISO 179 1eA
Charpy unnotched impact strength (XY axis)	NO BREAK kJ/m ²	ASTM D256
Coefficient of friction static vs steel, 23°C (73°F)	0.33	ASTM D1894
Coefficient of friction dynamic vs steel, 23°C (73°F)	0.33	ASTM D1894
Taber abrasion resistance, Wheel CS 17, load 1 kg, 1000 cycles	16 - 19 mg	ASTM G195-13A
Abrasion resistance, Wheel CS 17, load 1 kg, 1000 cycles	16 - 19 mg	ASTM G195-13A

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THERMAL PROPERTIES

PROPERTIES	VALUE	TEST STANDARD
Glass transition temperature, 10°C/min	-40 °C	ISO 11357-1/-2
Heat deflection temperature, 1.8 MPa, 138°C/h	40 - 55 °C	ASTM D648
Heat deflection temperature, 0.45 MPa, 138°C/h	60 - 75 °C	ASTM D648
Coefficient of linear thermal expansion, 23°C (73°F)	126- 185 10E-6 / °K	ASTM D696
Oxygen index	43 %	ISO 4589-1/-2
Thermal degradation temperature, Under air at 10°C/min	375 °C	
Thermal degradation temperature, Under nitrogen at 10°C/min	410 °C	

ELECTRICAL PROPERTIES

PROPERTIES	VALUE	TEST STANDARD
Dielectric constant, 1kHz	3.5 - 10.6	ASTM D150
Dissipation factor, 100Hz	0.02 - 0.21	ASTM D150
Volumic (transversal) resistivity	2 E12 ohm*m	IEC 62631-3-1
Surface resistivity, 23°C (73,4°F)	5.1 E11 - 5.3 E11 ohm/sq	
Dielectric strength, 23°C (73,4°F)	1.3 - 1.5 kV/mm	ASTM D149

OTHER PROPERTIES

PROPERTIES	VALUE	TEST STANDARD
Water absorption	0.03 - 0.05 %	
Specific gravity, 23°C (73°F)	1.7 - 1.8	

SPECIAL CHARACTERISTICS

- Flame & smoke

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