

## TECHNICAL DATA SHEET

# KYNAR SUPERFLEX® 2500-25

## FLUORINATED COPOLYMER PELLET

KYNAR SUPERFLEX® 2500-25 is a pelletized, semi-crystalline VF2 based copolymer with a high Limiting Oxygen Index (LOI). KYNAR SUPERFLEX® 2500-25 is used for extrusion and injection molding applications where high flexibility and/or ductility is required along with extra flame and smoke resistance.

### 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 <sup>-1</sup>	9 - 16 kPo	ASTM D3835
Melt flow index (MFR), 235°C / 5 kg (455°F / 11 lb)	1 - 15 g/10min	ASTM D1238

## MECHANICAL PROPERTIES

PROPERTIES	VALUE	TEST STANDARD
Tensile modulus, 23°C (73°F)	310 MPa	ASTM D638
Yield stress, 23°C (73°F)	11.7 - 19.3 MPa	ASTM D638
Yield strain, 23°C (73°F)	17 - 25 %	ASTM D638
Stress at break, 23°C (73°F)	13.8 - 31 MPa	ASTM D638
Flexural modulus, 23°C (73°F)	193 - 276 MPa	ASTM D790
Compression strength, 23°C (73°F)	13.8 - 20.7 MPa	ASTM D695
Izod impact unnotched strength, 23°C (73°F)	No Break	ASTM D256
Izod impact notched strength, 23°C (73°F)	No Break	ASTM D256
Hardness, Shore D	50 - 57	ASTM D2240
Coefficient of friction dynamic vs steel, 23°C (73°F)	0.54	ASTM D1895
Coefficient of friction static vs steel, 23°C (73°F)	0.49	ASTM D1894
Abrasion resistance, Wheel CS 17, load 1 kg, 1000 cycles	28 - 33 mg	ASTM G195-13A

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## THERMAL PROPERTIES

PROPERTIES	VALUE	TEST STANDARD
Limiting oxygen index (LOI)	75 %	ASTM D2863
Coefficient of linear thermal expansion, 23°C (73°F)	153 - 194 10E-6 / °K	ASTM D696
Specific heat temperature, 23°C (73°F)	745 - 958	ISO 11357-1/-2
Glass transition temperature	-41.7 - -40 °C	ASTM D7028
Thermal conductivity	0.144 - 0.18 W/m-K	ASTM D433
Melting temperature, 10°C/min	121 °C	ASTM D3418

## ELECTRICAL PROPERTIES

PROPERTIES	VALUE	TEST STANDARD
Dielectric constant, 1kHz	4.5 - 13.5	ASTM D150
Surface resistivity, 23°C (73,4°F)	8.5E+11 - 9.2E+11 ohm/sq	ASTM D257
Dielectric strength, 23°C (73,4°F)	0.8 - 1.1 kV/mm	ASTM D149
Volumic (transversal) resistivity, DC, 20°C (68°F)/50%RH	2.0E+12 ohm*m	ASTM D257

## OTHER PROPERTIES

PROPERTIES	VALUE	TEST STANDARD
Specific gravity, 23°C (73°F)	1.8 - 1.82 g/cm <sup>3</sup>	
Water absorption, Saturated in water at 23°C (73°F)	0.07 %	ASTM D570

## SPECIAL CHARACTERISTICS

- Flame & smoke

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