KYNAR®

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.

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	9 - 16	kPo	ASTM D3835
Melt flow index (MFR), 230°C / 5 kg (446°F / 11 lb)	1 - 15	g/10min	ASTM D1238

MECHANICAL PROPERTIES

PROPERTIES	TYPICAL VALUE	UNIT	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	TYPICAL VALUE	UNIT	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	TYPICAL VALUE	UNIT	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	TYPICAL VALUE	UNIT	TEST STANDARD
Density, 23°C (73°F)	1.8 - 1.82	g/cm³	ISO 1183-1

PACKAGING

Available packaging:
- 25 kg / 55 lb rigid container

SPECIAL CHARACTERISTICS

- Flame & smoke

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