KYNAR®

TECHNICAL DATA SHEET

KYNAR® 740-02 BLUE

FLUORINATED HOMOPOLYMER PELLET

Kynar® resins are fluorinated thermoplastic homopolymers.
Outstanding characteristics: chemical resistance, resistance to UV, high barrier properties, high purity, good mechanical and thermo-mechanical properties.
Kynar® 740 resin is a grade of pellets for injection molding, rotomolding applications and multifilament extrusion. This product is NSF/ANSI/CAN 61 certified.

TYPE

PVDF

MAIN APPLICATIONS

- cpi - others

DELIVERY FORM

- Pellets

RHEOLOGICAL PROPERTIES

PROPERTIES	TYPICAL VALUE	UNIT	TEST STANDARD
Melt viscosity, 230°C (446°F) at 100 s-1	14 - 22	kPo	ASTM D3835

MECHANICAL PROPERTIES

PROPERTIES	TYPICAL VALUE	UNIT	TEST STANDARD
Tensile modulus, 23°C (73°F)	1845	MPa	ASTM D638
Yield stress, 23°C (73°F)	44.8 - 55.2	MPa	ASTM D638
Yield strain, 23°C (73°F)	5 - 10	%	ASTM D638
Stress at break, 23°C (73°F)	34.5 - 55.2	MPa	ASTM D638
Flexural modulus, 23°C (73°F)	1380 - 2310	MPa	ASTM D790
Compression strength, 23°C (73°F)	68.9 - 103	MPa	ASTM D695
Izod impact unnotched strength, 23°C (73°F)	1070-4270	J/m	ASTM D256
Izod impact notched strength, 23°C (73°F)	96-214	J/m	ASTM D256
Hardness, shore D	76 - 80		ASTM D2240
Coefficient of friction dynamic vs steel, 23°C (73°F)	0.14		ASTM D1895
Coefficient of friction static vs steel, 23°C (73°F)	0.2		ASTM D1894
Abrasion resistance, wheel CS 17, load 1 kg, 1000 cycles	5 - 9	mg	ASTM G195-13A

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THERMAL PROPERTIES

PROPERTIES	TYPICAL VALUE	UNIT	TEST STANDARD
Coefficient of linear thermal expansion, 23°C (73°F)	119 - 144	10E-6 / °K	ASTM D696
Specific heat temperature, 23°C (73°F)	745 - 958		ISO 11357-1/-2
Heat deflection temperature, 1.8 MPa, 138°C/h	105 - 115	°C	ASTM D648
Heat deflection temperature, 0.45 MPa, 138°C/h	125-140	°C	ASTM D648
Glass transition temperature	-40.6 - -38.3	°C	ASTM D7028
Thermal conductivity	0.17 - 0.19	W/m-K	ASTM D433
Melting temperature, 10°C/min	168.5	°C	ASTM D3418
Burning behavior, nominal thickness 1.5 mm	V-0		IEC 60695-11-10

ELECTRICAL PROPERTIES

PROPERTIES	TYPICAL VALUE	UNIT	TEST STANDARD
Relative thermal index	150		

OTHER PROPERTIES

PROPERTIES	TYPICAL VALUE	UNIT	TEST STANDARD
Density, 23°C (73°F)	1.77 - 1.79	g/cm³	ISO 1183-1

SPECIAL CHARACTERISTICS

- Flame & smoke

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