

TECHNICAL DATA SHEET

KYNAR® 740-02 BLUE

FLUORINATED HOMOPOLYMER PELLET

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

DESIGNATION

PVDF

MAIN APPLICATIONS

• CPI - Others

DELIVERY FORM

• Pellets

RHEOLOGICAL PROPERTIES

PROPERTIES	VALUE	TEST STANDARD
Melt viscosity, 230°C (445°F) at 100 s-1	14 - 22 kPo	ASTM D3835

MECHANICAL PROPERTIES

PROPERTIES	VALUE	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)	1.07 - 4.27 kJ/m2	ASTM D256
Izod impact notched strength, 23°C (73°F)	0.0961 - 0.214 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	VALUE	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

ELECTRICAL PROPERTIES

PROPERTIES	VALUE	TEST STANDARD
Relative thermal index	150	

OTHER PROPERTIES

PROPERTIES	VALUE	TEST STANDARD
Specific gravity, 23°C (73°F)	1.77 - 1.79 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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