

TECHNICAL DATA SHEET
KYNAR® 740

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 standard grade of granules for extrusion of tubes and plaques, compression and transfer molding. This product is NSF/ANSI/CAN 61 certified.
A powder form is available as KYNAR® 741 resin.

TYPE

PVDF

MAIN APPLICATIONS

- 고순도
- 화학 가공업 - 반제품

배송 방식

- 펠릿

RHEOLOGICAL PROPERTIES

속성	값	UNIT	테스트 표준
Melt viscosity, 230°C (445°F) at 100 s-1	16 - 22	kPo	ASTM D3835
Shrinkage, Normal (t+24h)	2.0	%	ISO 294-4
Shrinkage, Parallel (t+24h)	2.0	%	ISO 294-4
Melt flow index (MFR), 235°C / 5 kg (455°F / 11 lb)	1.5 - 3	g/10min	ASTM D1238
Melt volume flow rate (MVR), 230°C / 5 kg (446°F / 11 lb)	1.1	cm³/10min	ISO 1133

MECHANICAL PROPERTIES

속성	값	UNIT	테스트 표준
Tensile modulus, 23°C (73°F)	1700	MPa	ASTM D638
Yield stress, 23°C (73°F)	44.8 - 55.2	MPa	ASTM D638
Yield strain, 23°C (73°F), 50 mm/min	7	%	ISO 527-1/-2
Stress at break, 23°C (73°F)	34.5 - 55.2	MPa	ASTM D638
Nominal strain at break, 23°C (73°F), 50 mm/min	>50	%	ISO 527-1/-2
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
Charpy unnotched impact strength, 23°C (73°F)	244	kJ/m2	ISO 179 1eU
Charpy unnotched impact strength, -30°C (-22°F)	186	kJ/m2	ISO 179 1eU

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속성	값	UNIT	테스트 표준
Charpy notched impact strength, 23°C (73°F)	14	kJ/m2	ISO 179 1eA
Charpy notched impact strength, -30°C (-22°F)	5	kJ/m2	ISO 179 1eA
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
속성	값	UNIT	테스트 표준
Glass transition temperature, 10°C/min	-40	°C	ISO 11357-1/-2
Vicat softening temperature, 50N at 50°C/h	135	°C	ISO 306
Limiting oxygen index (LOI)	44	%	ASTM D2863
Yellow card available	yes		
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, 0.45 MPa	135	°C	ISO 75-1/-2
Heat deflection temperature, 1.8 MPa	105	°C	ISO 75-1/-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
Thermal conductivity	0.17 - 0.19	W/m-K	ASTM D433
Melting temperature, 10°C/min	168	°C	ISO 11357-1/-3

THERMAL PROPERTIES ELECTRICAL PROPERTIES

속성	값	UNIT	테스트 표준
Comparative tracking index	600		IEC 60112
Dielectric constant, 1kHz	4.5 - 9.5		ASTM D150
Relative permittivity, 100Hz	11		
Relative permittivity, 1MHz	8		
Relative thermal index	150		
Dissipation factor, 100Hz	260	E-4	
Dissipation factor, 1MHz	2310	E-4	
Dissipation factor	0.01 - 0.21		ASTM D150

OTHER PROPERTIES

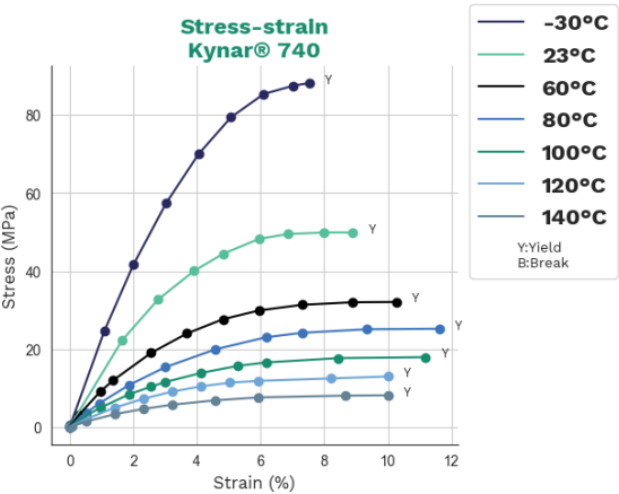
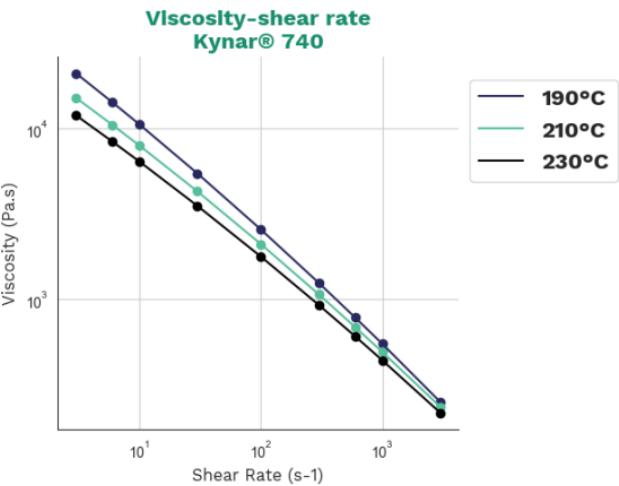
속성	값	UNIT	테스트 표준
Moisture absorption, At equilibrium at 23°C (73°F) / 50%HR	0.015	%	ISO 62
Specific gravity, 23°C (73°F)	1.77 - 1.79	g/cm³	
Water absorption, Saturated in water at 23°C (73°F)	0.03	%	ISO 62

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특징

- 불과 연기

DIAGRAMS



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