

TECHNICAL DATA SHEET

KYNAR FLEX[®] 2800-00P

FLUORINATED COPOLYMER PELLET

KYNAR FLEX[®] resins are fluorinated thermoplastic copolymers. Outstanding characteristics: chemical resistance, imperviousness to UV, high barrier properties, high purity, good mechanical and thermo-mechanical properties. KYNAR FLEX[®] 2800-00 resin is a standard grade of granules, compared to the homopolymer grades, which exhibits a lower modulus, a better resistance to stress cracking in alkaline and oxidizing media, and a lower melting point. For cable coating, extrusion of tube and plaque, compression molding of bulky parts. Additional characteristics: - Easily processed using conventional equipment - Excellent thermal stability - Retains properties after aging - Pigmentable - UL RTI temperature rating 125°C - Radiation crosslinking.

TYPE

PVDF

MAIN APPLICATIONS

- 水処理膜

配送形態

- ペレット

RHEOLOGICAL PROPERTIES

プロパティ	価値	UNIT	テスト基準
Melt viscosity, 230°C (445°F) at 100 s-1	22 - 27	kPo	ASTM D3835
Melt flow index (MFR), 235°C / 5 kg (455°F / 11 lb)	3 - 8	g/10min	ASTM D1238
Melt volume flow rate (MVR), 230°C / 5 kg (446°F / 11 lb)	0.5	cm³/10min	ISO 1133

MECHANICAL PROPERTIES

プロパティ	価値	UNIT	テスト基準
Yield stress, 23°C (73°F)	20 - 34.5	MPa	ASTM D638
Stress at break, 23°C (73°F)	17.2 - 34.5	MPa	ASTM D638
Nominal strain at break, 23°C (73°F), 50 mm/min	>50	%	ISO 527-1/-2
Compression strength, 23°C (73°F)	31 - 41.4	MPa	ASTM D695
Izod impact unnotched strength, 23°C (73°F)	No Break		ASTM D256
Izod impact notched strength, 23°C (73°F)	0.534 - 1.07	J/m	ASTM D256
Charpy notched impact strength, 23°C (73°F)	No Break		ISO 179 1eA
Charpy notched impact strength, -30°C (-22°F)	5	kJ/m2	ISO 179 1eA
Hardness, Shore D	60 - 70		ASTM D2240
Yield strain, 23°C (73°F), 50 mm/min	15	%	ISO 527-1/-2
Flexural modulus, 23°C (73°F)	483 - 758	MPa	ASTM D790
Tensile modulus, 23°C (73°F)	700	MPa	ASTM D638
Coefficient of friction dynamic vs steel, 23°C (73°F)	0.33		ASTM D1895

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プロパティ	価値	UNIT	テスト基準
Coefficient of friction static vs steel, 23°C (73°F)	0.33		ASTM D1894
Abrasion resistance, Wheel CS 17, load 1 kg, 1000 cycles	16 - 19	mg	ASTM G195-13A

THERMAL PROPERTIES

プロパティ	価値	UNIT	テスト基準
Glass transition temperature, 10°C/min	-40	°C	ISO 11357-1/-2
Vicat softening temperature, 50N at 50°C/h	79	°C	ISO 306
Limiting oxygen index (LOI)	42	%	ASTM D2863
Yellow card available	yes		
Coefficient of linear thermal expansion, 23°C (73°F)	126 - 185	10E-6 / °K	ASTM D696
Specific heat temperature, 23°C (73°F)	745 - 958		ISO 11357-1/-2
Heat deflection temperature, 0.45 MPa	68	°C	ISO 75-1/-2
Heat deflection temperature, 1.8 MPa	48	°C	ISO 75-1/-2
Heat deflection temperature, 1.8 MPa, 138°C/h	40 - 55	°C	ASTM D648
Heat deflection temperature, 0.45 MPa, 138°C/h	60-75	°C	ASTM D648
Thermal conductivity	0.144 - 0.18	W/m-K	ASTM D433
Melting temperature, 10°C/min	143	°C	ISO 11357-1/-3

ELECTRICAL PROPERTIES

プロパティ	価値	UNIT	テスト基準
Dielectric constant, 1kHz	3.5 - 10.6		ASTM D150
Surface resistivity, 23°C (73,4°F)	5.1E+11 - 5.3E+11	ohm/sq	ASTM D257
Dielectric strength, 23°C (73,4°F)	1.3 - 1.5	kV/mm	ASTM D149
Relative permittivity, 100Hz	11		
Relative permittivity, 1MHz	7		
Relative thermal index	130		
Dissipation factor, 100Hz	520	E-4	
Dissipation factor, 1MHz	2330	E-4	
Dissipation factor	0.02 - 0.21		ASTM D150

OTHER PROPERTIES

プロパティ	価値	UNIT	テスト基準
Moisture absorption, At equilibrium at 23°C (73°F) / 50%HR	0.015	%	ISO 62
Specific gravity, 23°C (73°F)	1.77 - 1.8	g/cm³	
Water absorption, Saturated in water at 23°C (73°F)	0.03	%	ISO 62

KYNAR FLEX® 2800-00P

包装

Available packaging:

- 25 kg / 55 lb rigid container

特別な特性

- 炎と煙

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