KYNAR FLEX®
2850-00

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. This product is NSF/ANSI/CAN 61 certified.
Kynar Flex® 2850-00 resin is a standard grade of granules less flexible than the grade Kynar Flex® 2800-00 resin with a higher melting point. For extrusion, wire and cable constructions which require an UL wire ratings to 150 degrees C.

Also for applications requiring a UL RTI temperature rating of 140 degrees C.

A powder form is available as Kynar Flex® 2851-00 resin.

UL Yellow Card

特性	値	単位	テスト基準
レオロジー特性			
メルトボリュームレイト	1.1	cm³/10min	ISO 1133
温度	230	°C	-
	446	°F	
荷重	5	kg	-
	11	lb	
メルトフローレイト	3 - 8	g/10min	ASTM D1238
温度	230	°C	-
荷重	12.5	kg	-
溶融粘度, 230°C, 100 s^{-1}	23 - 27	kPoise	ASTM D3835
機械的特性			
引張弾性率	1300	MPa	ISO 527-1/-2
	189000	psi	
引張弾性率, 73 °F	1030 - 1520	MPa	ASTM D638
	150000 - 220000	psi	
降伏応力	40	MPa	ISO 527-1/-2
	5800	psi	
降伏応力, 73 °F	31 - 41.4	MPa	ASTM D638
	4500 - 6000	psi	
降伏ひずみ	11	%	ISO 527-1/-2
降伏点伸び, 73 °F	5 - 15	%	ASTM D638
破壊呼びひずみ	>50	%	ISO 527-1/-2
破壊応力, 73 °F	27.6 - 48.3	MPa	ASTM D638
	4000 - 7000	psi	

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破断伸び, 73 °F	30 - 200	%	ASTM D638
Taber 耐摩耗性, CS 17 1000g:pad	6 - 9	mg/1000 cycles	ASTM-G195-13A
ショア硬さ, D, 73 °F	70 - 75	-	ASTM D2240
曲げ弾性率, 73 °F	1030 - 1240	MPa	ASTM D790
	150000 - 180000	psi	
5%伸び時の曲げ強度, 73 °F	20.7 - 34.5	MPa	ASTM D790
	3000 - 5000	psi	
圧縮強度, 73 °F	41.4 - 58.6	MPa	ASTM D695
	6000 - 8500	psi	
引張クリープ弾性率, 1h	508	MPa	ISO 899-1
	73700	psi	
引張クリープ弾性率, 1000h	210	MPa	ISO 899-1
	30500	psi	
ノッチ付きシャルピー衝撃強さ, +23°C	未破壊	kJ/m²	ISO 179/1eA
ノッチ付きシャルピー衝撃強さ, -30°C	5	kJ/m²	ISO 179/1eA
	2.38	ftlb/in²	
衝撃試験, 73 °F	未破壊	kJ/m	ASTM D256
ノッチ付き衝撃強さ, 73 °F	≥ 0.214	kJ/m	ASTM D256
	≥ 4	ftlb/in	
摩擦係数, 静力学対鋼, 73°F	0.26	-	ASTM D1894
摩擦係数, 動的対鋼, 73°F	0.19	-	ASTM D1894
熱的特性			
溶融温度, 10°C/min	158	°C	ISO 11357-1/-3
溶融温度	155 - 160	°C	ASTM D3418
ガラス転移点, 10°C/min	-43	°C	ISO 11357-1/-2
	-45.4	°F	
ガラス転移温度 (Tg)	-40.6 - -38.3	°C	ASTM D7028
	-41 - -37	°F	
温度定格	140	°C	UL RTI
	284	°F	
荷重たわみ温度, 1.80 MPa	46	°C	ISO 75-1/-2
	115	°F	
荷重たわみ温度, 264 Psi, 248 °F/hr	37.8 - 55	°C	ASTM D648
	100 - 131	°F	

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荷重たわみ温度, 0.45 MPa	114	°C	ISO 75-1/-2
	237	°F	
荷重たわみ温度, 66 Psi, 248 °F/hr	60 - 75	°C	ASTM D648
	140 - 167	°F	
ビカット軟化温度, 50°C/h 50N	107	°C	ISO 306
	225	°F	
線膨張係数, 平行	160	E-6/K	ISO 11359-1/-2
線膨張係数, 73 °F	12.6 - 18.5	10E-5/°C	ASTM D696
	7 - 10.3	10E-5/°F	
1.5mm厚さでの燃焼性	V-0	class	IEC 60695-11-10
試験片の厚さ	1.5	mm	-
	0.0591	in	
Yellow Card 可用	はい	-	-
厚さhでの燃焼性	V-0	class	IEC 60695-11-10
試験片の厚さ	0.8	mm	-
	0.0315	in	
酸素指数	43	%	ISO 4589-1/-2
酸素指数	43	%	ASTM D2863
空気中の熱分解	375	°C	1% wt. loss
	707	°F	
窒素中での熱分解	410	°C	1% wt. loss
	770	°F	
相対熱指数, 機械的	140	°C	UL 746B
	284	°F	
相対熱指数, 電気	140	°C	UL 746B
	284	°F	
電気的特性.			
比誘電率, 100Hz	10.5	-	IEC 60250
比誘電率, 1MHz	6.5	-	IEC 60250
比誘電率, 1 kHz	3.5 - 10.2	-	ASTM D150
誘電正接, 100Hz	380	E-4	IEC 60250
誘電正接, 1MHz	2340	E-4	IEC 60250
誘電正接, 100 kHz	0.01 - 0.22	-	ASTM D150
体積抵抗率	2E12	Ohm*m	IEC 62631-3-1

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体積抵抗率, DC 68 °F, 65% R.H.	2.9E14 - 3.2E14	Ohm*cm	ASTM D257
表面抵抗率	1E13	Ohm	IEC 62631-3-2
耐電圧	21 533	kV/mm kV/in	IEC 60243-1
耐電圧, 73°F	1.3 - 1.6	kV/mil	ASTM D149
耐トラッキング性	600	-	IEC 60112
その他の特性.			
吸水率, 23°C, immersion, equilibrium	0.03	%	ISO 62
吸水率	0.03 - 0.05	%	ASTM D570
吸湿率	0.015	%	ISO 62
密度	1770 1.77	kg/m³ g/cm³	ISO 1183
比重, 73 °F	1.77 - 1.8	-	ASTM D792
光学特性			
Refractive Index @ sodium D line	1.42	-	ASTM D542

Main applications:

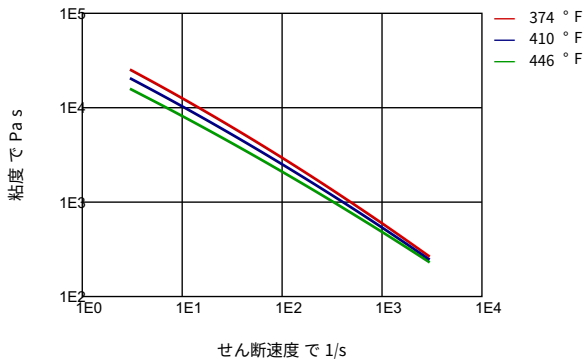
- piping systems
- wire and cable
- corrosion protection in the chemical industry and lined pipe
- off shore

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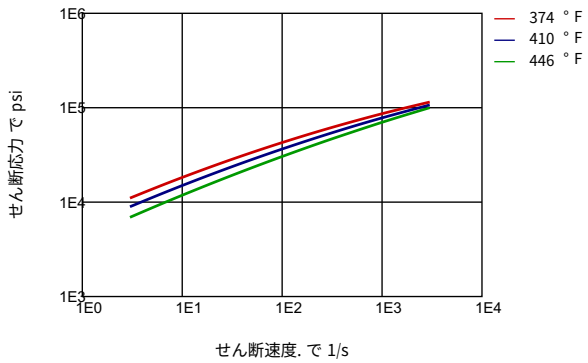
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機能

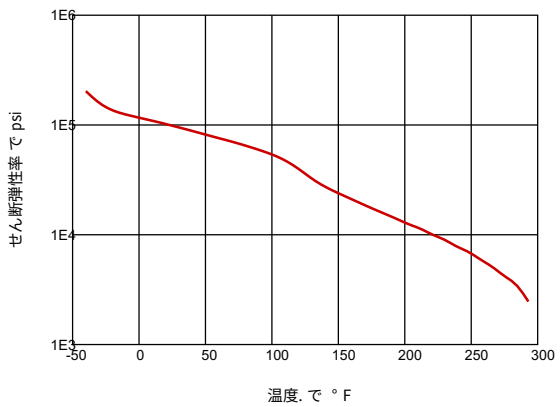
粘度せん断速度.



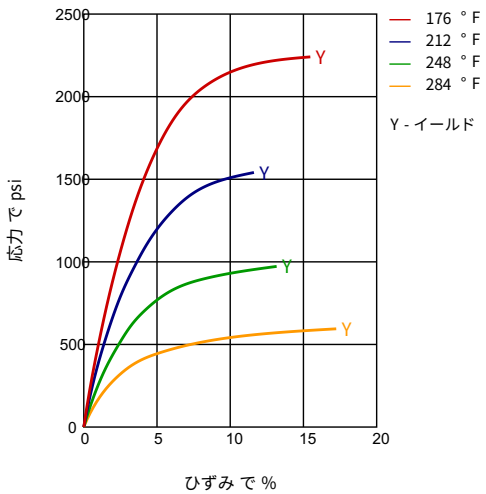
せん断応力-せん断速度.



せん断弾性率-温度.



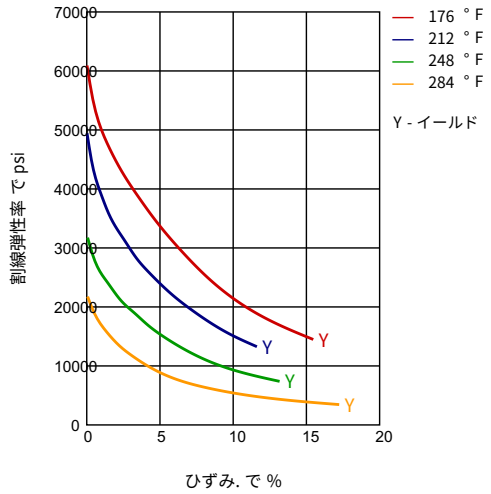
応力-ひずみ.



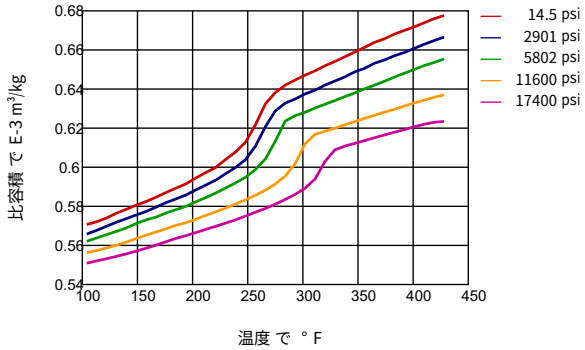
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割線弾性率ーひずみ.



PVT



成形加工法

異形押出成形，その他の押出成形，トランスファー成形

納入形状

ペレット

特殊な特性

熱安定化，光安定化

領域別の利用可能性

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