

KYNAR FLEX®

2750-01

Kynar Flex® resins are fluorinated thermoplastic copolymers.

Outstanding characteristics: chemical resistance, imperviousness to UV, barrier properties and high purity.

Kynar Flex® 2750-01 resin is a grade of granules to be used where maximum flexibility or impact strength is required. This product is NSF/ANSI/CAN 61 certified.

A powder form is available as Kynar Flex® 2751 resin.

特性	値	単位	テスト基準
レオロジー特性			
メルトポリュームレイト	1.9	cm ³ /10min	ISO 1133
温度	230	°C	-
	446	°F	-
荷重	5	kg	-
	11	lb	-
メルトフローレイト	4 - 14	g/10min	ASTM D1238
温度	230	°C	-
荷重	12.5	kg	-
溶融粘度, 230°C, 100 s ⁻¹	20 - 25	kPoise	ASTM D3835
機械的特性			
引張弾性率	526	MPa	ISO 527-1/-2
	76300	psi	
引張弾性率, 73 °F	276 - 448	MPa	ASTM D638
	40000 - 65000	psi	
降伏応力	21	MPa	ISO 527-1/-2
	3050	psi	
降伏応力, 73 °F	13.8 - 21.4	MPa	ASTM D638
	2000 - 3100	psi	
降伏ひずみ	15	%	ISO 527-1/-2
降伏点伸び, 73 °F	15 - 25	%	ASTM D638
破壊呼びひずみ	>50	%	ISO 527-1/-2
破壊応力, 73 °F	20 - 27.6	MPa	ASTM D638
	2900 - 4000	psi	
破断伸び, 73 °F	200 - 400	%	ASTM D638
Taber 耐摩耗性, CS 17 1000g:pad	21 - 25	mg/100 cycles	ASTM-G195-13A

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Source: automatically generated TDS from Material Database on 20-02-2024

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シヨア硬さ, D, 73 °F	57 - 62	-	ASTM D2240
曲げ弾性率, 73 °F	276 - 414	MPa	ASTM D790
	40000 - 60000	psi	
5%伸び時の曲げ強度, 73 °F	13.8 - 24.1	MPa	ASTM D790
	2000 - 3500	psi	
圧縮強度, 73 °F	24.1 - 31	MPa	ASTM D695
	3500 - 4500	psi	
ノッチ付きシャルピー衝撃強さ, +23°C	未破壊	kJ/m ²	ISO 179/1eA
ノッチ付き衝撃強さ, 73 °F	未破壊	kJ/m	ASTM D256
摩擦係数, 静力学対鋼, 73°F	0.55	-	ASTM D1894
摩擦係数, 動的対鋼, 73°F	0.54	-	ASTM D1894
熱的特性			
溶融温度, 10°C/min	134	°C	ISO 11357-1/-3
溶融温度	130 - 138	°C	ASTM D3418
ガラス転移点, 10°C/min	-40	°C	ISO 11357-1/-2
ガラス転移温度 (Tg)	-40	°C	ASTM D7028
荷重たわみ温度, 1.80 MPa	43	°C	ISO 75-1/-2
	109	°F	
荷重たわみ温度, 264 Psi, 248 °F/hr	35 - 51.7	°C	ASTM D648
	95 - 125	°F	
荷重たわみ温度, 0.45 MPa	57	°C	ISO 75-1/-2
	135	°F	
荷重たわみ温度, 66 Psi, 248 °F/hr	48.9 - 65.6	°C	ASTM D648
	120 - 150	°F	
ピカット軟化温度, 50°C/h 50N	61	°C	ISO 306
	142	°F	
線膨張係数, 平行	177	E-6/K	ISO 11359-1/-2
線膨張係数, 73 °F	16.2 - 21.6	10E-5/°C	ASTM D696
	9 - 12	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	1.6	mm	-
	0.0630	in	
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	

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酸素指数	49	%	ISO 4589-1/-2
酸素指数	43	%	ASTM D2863
熱伝導率	0.144 - 0.18 1 - 1.25	W/(m K) BTU in	ASTM D433
比熱	745 - 958 0.28 - 0.36	J/(hr ft ² F) (kg K) BTU/(l	DSC
空気中の熱分解	375 707	°C °F	1% wt. loss
窒素中での熱分解	410 770	°C °F	1% wt. loss
電気的特性.			
比誘電率, 100Hz	11.5	-	IEC 60250
比誘電率, 1MHz	7	-	IEC 60250
比誘電率, 1 kHz	3.8 - 12.1	-	ASTM D150
誘電正接, 100Hz	240	E-4	IEC 60250
誘電正接, 100 kHz	0.02 - 0.24	-	ASTM D150
体積抵抗率	2E12	Ohm* m	IEC 62631-3-1
体積抵抗率, DC 68 °F, 65% R.H.	2E14	Ohm* cm	ASTM D257
表面抵抗率, 73 °F	4.8E11 - 5.1E11	Ohm per square	ASTM D257
耐電圧, 73°F	1.1 - 1.3	kV/mil	ASTM D149
その他の特性.			
吸水率, 23°C, immersion, equilibrium	0.03	%	ISO 62
吸水率	0.03 - 0.06	%	ASTM D570
密度	1780 1.78	kg/m ³ g/cm ³	ISO 1183
比重, 73 °F	1.78 - 1.8	-	ASTM D792
光学特性			
Refractive Index @ sodium D line	1.41	-	ASTM D542

Main applications:

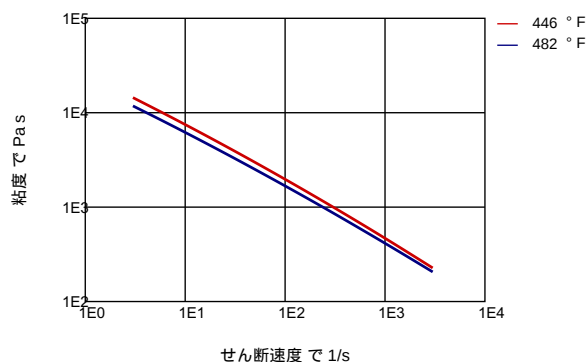
- flexible tubing
- wire and cable
- corrosion protection in the chemical industry
- off-shore

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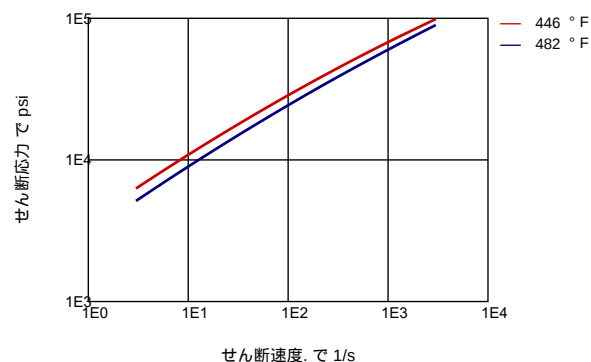
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機能

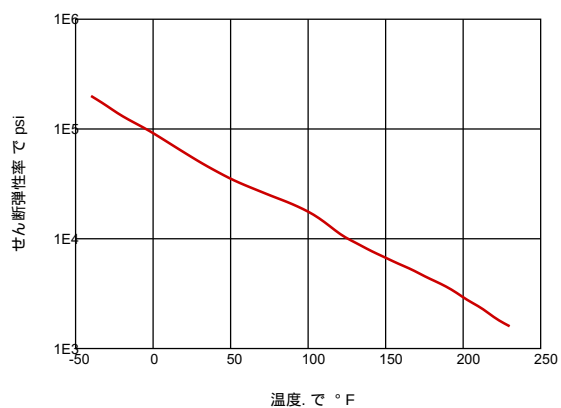
粘度せん断速度.



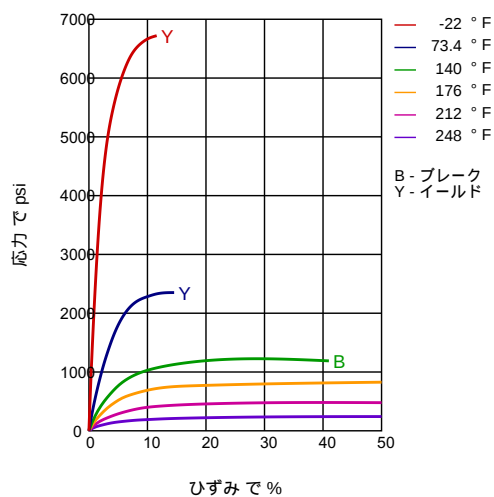
せん断応力-せん断速度.



せん断弾性率-温度.



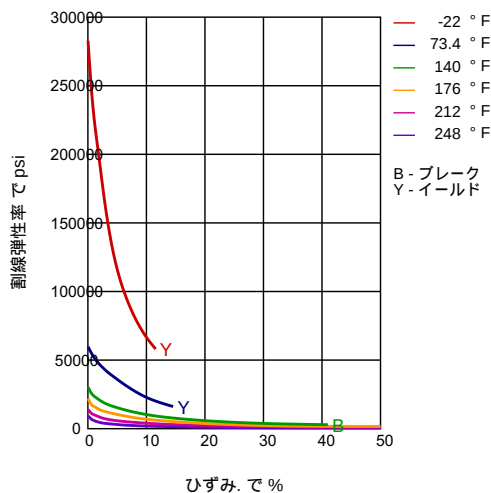
応力-ひずみ.



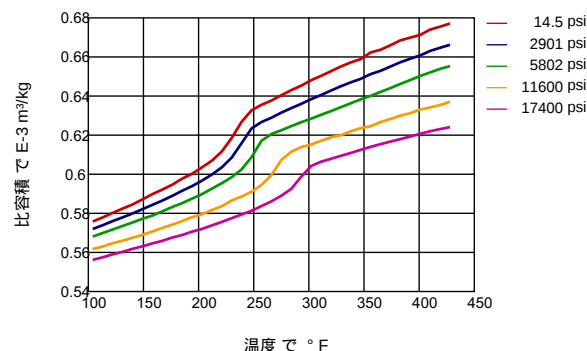
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割線弾性率—ひずみ.



PVT



成形加工法 射出成形, シート押出成形, その他の押出成形, トランスファー成形	Headquarters: Arkema France 420 rue d'Estienne d'Orves 92705 Colombes Cedex France T +33 (0)1 49 00 80 80 hpp.arkema.com
納入形状 ペレット	
特殊な特性 熱安定化, 光安定化	Arkema Inc. – High Performance Polymers 900 First Avenue King of Prussia, PA 19406 Tel.: +1 610 205 7000 hpp.arkema.com
領域別の利用可能性 北アメリカ, ヨーロッパ, アジア/太平洋地域, 南・中央アメリカ, 近東/アフリカ	

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