

KYNAR FLEX®

2900-04

Kynar Flex® resins are fluorinated thermoplastic copolymers.

Kynar Flex® 2900-04 resin is a pelletized, semi-crystalline VF based copolymer. It can be used in extrusion applications such as flexible wire jacketing, or injection molding applications where higher Limiting Oxygen Index is needed for flame and smoke applications.

Additional characteristics:

- Excellent thermal stability
- Excellent abrasion resistance
- Extremely flexible and tough

Meets UL 910 requirements

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	9	cm ³ /10min	ISO 1133
温度	232	°C	-
	450	°F	-
荷重	3.8	kg	-
	8.38	lb	-
メルトフローレイト	4 - 21	g/10min	ASTM D1238
温度	230	°C	-
荷重	3.8	kg	-
溶融粘度, 230°C, 100 s ⁻¹	6 - 12	kPoise	ASTM D3835
機械的特性			
引張弾性率	700	MPa	ISO 527-1/-2
	102000	psi	
引張弾性率, 73 °F	552 - 896	MPa	ASTM D638
	80000 - 130000	psi	
降伏応力	25	MPa	ISO 527-1/-2
	3630	psi	
降伏応力, 73 °F	20 - 34.5	MPa	ASTM D638
	2900 - 5000	psi	
降伏ひずみ	14.5	%	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	

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破断伸び, 73 °F	100 - 300	%	ASTM D638
Taber 耐摩耗性, CS 17 1000g:pad	16 - 19	mg/1000 cycles	ASTM-G195-13A
ショア硬さ, D, 73 °F	60 - 70	-	ASTM D2240
曲げ弾性率, 73 °F	483 - 758 70000 - 110000	MPa psi	ASTM D790
5%伸び時の曲げ強度, 73 °F	20.7 - 34.5 3000 - 5000	MPa psi	ASTM D790
圧縮強度, 73 °F	31 - 41.4 4500 - 6000	MPa psi	ASTM D695
衝撃試験, 73 °F	未破壊	kJ/m	ASTM D256
ノッチ付き衝撃強さ, 73 °F	0.534 - 1.07 10 - 20	kJ/m ftlb/in	ASTM D256
摩擦係数, 静力学対鋼, 73°F	0.33	-	ASTM D1894
摩擦係数, 動的対鋼, 73°F	0.33	-	ASTM D1894
熱的特性			
溶融温度, 10°C/min	143	°C	ISO 11357-1/-3
溶融温度	140 - 145	°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)	-41.1 - -39.4 -42 - -39	°C °F	ASTM D7028
荷重たわみ温度, 264 Psi, 248 °F/hr	40 - 55 104 - 131	°C °F	ASTM D648
荷重たわみ温度, 66 Psi, 248 °F/hr	60 - 75 140 - 167	°C °F	ASTM D648
線膨張係数, 73 °F	12.6 - 18.5 7 - 10.3	10E-5/ °C 10E-5/ °F	ASTM D696
1.5mm厚さでの燃焼性	V-0	class	IEC 60695-11-10
試験片の厚さ	1.5 0.0591	mm 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 0.0315	mm in	-
酸素指数	75	%	ISO 4589-1/-2

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酸素指数	75	%	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	(/hr ft ² F) BTU/(l	DSC
空気中の熱分解	375 707	b.°F) °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, 1 kHz	3.5 - 10.6	-	ASTM D150
誘電正接, 100 kHz	0.02 - 0.21	-	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
耐電圧, 73°F	1.3 - 1.5	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 - 0.05	%	ASTM D570
密度	1780	kg/m ³	ISO 1183
	1.78	g/cm ³	
比重, 73 °F	1.77 - 1.8	-	ASTM D792

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	Headquarters: Arkema France 420 rue d'Estienne d'Orves 92705 Colombes Cedex France T +33 (0)1 49 00 80 80 hpp.arkema.com Arkema Inc. – High Performance Polymers 900 First Avenue King of Prussia, PA 19406 Tel.: +1 610 205 7000 hpp.arkema.com
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